CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Nov. 6	Elizabeth Park (Trenton P. O.), Mich.	Nov. 2
Nov. 9	Marshall, Ill.	Oct. 26
Nov. 10	Gridley, Ill.	Oct. 26
Nov. 14	Newport, Ky.	Oct. 5
Nov. 15	Ossining, N. Y. Adv. Nov. 2.	Nov. 2
Nov. 15	Dallas, Tex.	Nov. 2
Nov. 20	Springfield, Mass. Adv. Nov. 2.	Nov. 2
Nov. 24	Memphis, Tenn. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 29	San Juan, Porto Rico Adv. Oct. 12 to Nov. 2.	Oct. 19
Nov. 29	Bay St. Louis, Miss.	Nov. 2
Dec. 1	San Juan, Porto Rico Adv. Oct. 19 to Nov. 2.	Oct. 19

SEWERS

Nov. 6	Amboy, Minn.	Oct. 19
Nov. 6	Cleveland Heights (Warrensville P. O.), O.	Nov. 2
Nov. 7	Miami, Fla.	Oct. 19
Nov. 8	Hillside, N. J.	Nov. 2
Nov. 13	Garfield Heights (Cleveland P. O.), O.	Nov. 2
Nov. 13	Wash., D. C. Adv. Nov. 2.	Nov. 2
Nov. 14	Indianapolis, Ind.	Oct. 26
Dec. 11	New Orleans, La. Adv. Oct 12 to Nov. 2.	Oct. 12

WASTE DISPOSAL

Nov. 6	Waco, Tex.	Oct. 26

BRIDGES

Nov. 7	Detroit, Mich.	Nov. 2
Nov. 7	Vaudreuil, Que.	Oct. 19
Nov. 7	Vicksburg, Miss	Oct. 19
Nov. 10	Tennessee	Oct. 26
Nov. 14	Milton, Fla.	Oct. 19
Nov. 15	New Jersey Adv. Nov. 2.	Nov. 2
Nov. 20	Pittsburgh, Pa. Adv. Nov. 2.	Nov. 2
Nov. 29	Phila., Pa. Adv. Nov. 2	Nov. 2
Jan. 23	Spokane, Wash.	Sept. 21
Sept. 1, 1923	Sydney, New South Wales, Australia	Aug. 3

EXCAVATION, DRAINAGE, IRRIGATION

Nov. 10	Maricopa, Ariz.	Nov. 2
Nov. 13	Newark, N. J.	Oct. 26
Nov. 15	Lake Providence, La	Nov. 2

STREETS AND ROADS

Nov. 6	Ebensburg, Pa.	Oct. 19
Nov. 6	Fresno, Calif.	Oct. 26
Nov. 6	Warsaw, Ind.	Oct. 26
Nov. 6	Utah	Oct. 26
Nov. 6	California	Oct. 26
Nov. 6	Ebensburg, Pa.	Nov. 2
Nov. 7	Marion, Ind.	Oct. 19
Nov. 7	Stockton, Calif.	Oct. 26
Nov. 7	Topeka, Kan.	Oct. 26
Nov. 7	Birmingham, Ala.	Oct. 26
Nov. 7	Topeka, Kan.	Oct. 26
Nov. 7	Louisiana	Oct. 26
Nov. 7	Columbus, O.	Nov. 2
Nov. 7	Ft. Worth, Tex.	Nov. 2
Nov. 8	Bridgeton, N. J.	Oct. 19
Nov. 8	Monticello, Ind.	Oct. 26
Nov. 8	Mays Landing, N. J. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 9	Duluth, Minn.	Oct. 19
Nov. 9	Eldorado, Kan.	Oct. 19
Nov. 9	Duluth, Minn.	Oct. 26
Nov. 9	Michigan	Nov. 2
Nov. 9	Kentucky	Nov. 2
Nov. 9	Ft. Worth, Tex.	Nov. 2
Nov. 9	St. George, S. C.	Nov. 2
Nov. 10	New York, N. Y.	Nov. 2
Nov. 10	Tennessee	Oct. 26
Nov. 10	Canton, O.	Nov. 2
Nov. 10	Colorado	Nov. 2
Nov. 10	Pearsall, Tex.	Nov 2
Nov. 14	Santa Rosa, Calif.	Oct. 26
Nov. 14	Massachusetts	Oct. 26
Nov. 14	Louisiana	Nov. 2
Nov. 14	West Virginia Adv. Nov. 2	Nov. 2
Nov. 14	Sumner, Ia. Adv. Nov. 2.	Nov. 2
Nov. 14	Florida	Nov. 2
Nov. 16	Greenville, N. C.	Nov. 2
Nov. 17	Tampa, Fla. Adv. Oct. 19 and Nov. 2.	Oct. 26
Nov. 17	Bernardsville, N. J. Adv. Nov. 2.	Nov. 2
Nov. 18	Logansport, Ind.	Oct. 26
Nov. 20	Goderich, Ont.	Oct. 19
Nov. 21	Pascagoula, Miss.	Oct. 26
Nov. 21	Newton, N. J. Adv. Nov. 2.	Nov. 2
Nov. 23	Wilmington, N. C. Adv. Nov. 2.	Nov. 2
Nov. 27	Washington, N. C. Adv. Nov. 2.	Nov. 2
Dec. 22	Spokane, Wash.	Nov. 2
Dec. 30	Quebec	Nov. 2
Jan. 7	Duluth, Minn.	Sept. 28

INDUSTRIAL WORK

Nov. 4	Johnstown, Pa.	Nov. 2
Nov. 4	Pittsburgh, Pa.	Nov. 2
Nov. 6	Crawfordsville, Ind.	Oct. 26
Nov. 9	Marshall, Ill.	Oct. 19

BUILDINGS

Nov. 6	Detroit, Mich.	Oct. 19
Nov. 6	Cleveland, O.	Oct. 19
Nov. 6	Maywood, N. J.	Oct. 26
Nov. 6	New York, N. Y.	Nov. 2
Nov. 7	Rapid City, S. D.	Oct. 19
Nov. 7	Athens, Ga.	Nov. 2
Nov. 8	St. Louis, Mo.	Oct. 19
Nov. 8	Kitchener, Ont.	Oct. 26
Nov. 8	Buffalo, N. Y.	Nov. 2
Nov. 9	Trenton, N. J.	Oct. 26
Nov. 9	Minneapolis, Minn.	Oct. 26
Nov. 9	Pittsburgh, Pa.	Oct. 26
Nov. 9	Phila., Pa.	Nov. 2
Nov. 10	Glastonbury, Conn.	Nov. 2
Jan. 10	Jamestown, N. Y.	Nov. 2
Nov. 10	Atlanta, Ga.	Nov. 2
Nov. 14	Theills, N. Y. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 14	Canandaigua, N. Y. Adv. Nov. 2.	Nov. 2
Nov. 15	Ocean City, N. J.	Oct. 5
Nov. 15	Butler, Pa.	Oct. 26
Nov. 15	Beaumont, Tex.	Oct. 19
Nov. 15	Birmingham, Ala.	Nov. 2
Nov. 15	Atlanta, Ga.	Nov. 2
Nov. 18	Portland, Ore.	Oct. 19
Nov. 20	Birmingham, Ala.	Nov. 2
Nov. 20	Cleveland, O.	Nov. 2
Nov. 21	Owen Sound, Ont.	Nov. 2
Nov. 21	Detroit, Mich.	Nov. 2
Nov. 22	Wash., D. C. Adv. Nov. 2.	Nov. 2
Nov. 22	San Antonio, Tex.	Nov. 2
Nov. 25	Bowling Green, O.	Nov. 2
Dec. 1	Oil City, Pa.	Oct. 26

FEDERAL GOVERNMENT WORK

Nov. 6	Pier, etc. — Milwaukee, Wis. Adv. Oct. 12 to Nov. 2.	Oct. 12
Nov. 6	Breakwater—Chicago, Ill. Adv. Oct. 12 to Nov. 2.	Oct. 12
Nov. 6	Dump Scows — Buffalo, N. Y. Adv. Oct. 12 to Nov. 2.	Oct. 12
Nov. 6	Extension—Fargo, N. D.	Oct. 19
Nov. 7	Extension, etc.—San Jose, Calif.	Oct. 19
Nov. 8	Gas Tank, etc.—Chollas Heights, Calif.	Oct. 19
Nov. 14	Hospital—Chillicothe, O. Adv. Oct. 19 to Nov. 2.	Oct. 12
Nov. 15	Radial Brick Stack—Tupper Lake, N. Y.	Oct. 19
Nov. 15	Mechanical Equipment, etc. —Tupper Lake, N. Y.	Oct. 19
Nov. 15	Water Tank—Tupper Lake, N. Y.	Oct. 19
Nov. 15	Refrigerating and Ice-Making Equipment, etc.—Tupper Lake, N. Y.	Oct. 19
Nov. 15	Coal and Ash Handling Equipment, etc. — Tupper Lake, N. Y.	Oct. 19
Nov. 15	Post Office—Vernal, Utah	Oct. 26
Nov. 15	Repairs — Moorhead, City, N. C.	Oct. 26
Nov. 16	Post Office—Shawnee, Okla. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 17	Re-roofing—Carville, La.	Oct. 26
Nov. 20	Horses and Props—Huntington, W. Va. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 20	Steel Hull—Pittsburgh, Pa. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 20	Roof—Toledo, O.	Oct. 26
Nov. 21	Roadway, Norfolk, Va. Adv. Nov. 2.	Nov. 2
Nov. 22	Covering Railroad Tracks—San Diego, Calif.	Nov. 2
Nov. 23	Earthwork—St. Louis, Mo. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 23	Earthwork—St. Louis, Mo. Adv. Nov. 2.	Nov. 2
Nov. 24	Post Office—Chandler, Okla. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 25	Dredging—Charleston, S. C. Adv. Oct. 26 and Nov. 2.	Oct. 26
Nov. 25	Barges—Pittsburgh, Pa. Adv. Nov. 2.	Nov. 2
Nov. 25	Lock and Dam—Jacksonville, Fla.	Nov. 2
Nov. 27	Dredge Hull, etc.—Milwaukee, Wis. Adv. Nov. 2.	Nov. 2
Nov. 27	Dredging — Jacksonville, Fla. Adv. Nov. 2.	Nov. 2
Dec. 1	Barge—Montgomery, Ala. Adv. Oct. 26 and Nov. 2.	Oct. 26
Dec. 1	Dredging—Honolulu, H. T.	Nov. 2
Dec. 2	Boilers—Memphis, Tenn. Adv. Nov. 2.	Nov 2
Dec. 2	Barges—Memphis, Tenn. Adv. Nov. 2.	Nov. 2
Dec. 2	Machinery — Memphis, Tenn. Adv. Nov. 2.	Nov. 2
Dec. 6	Pumping Units — Boise, Idaho	Oct. 19

MISCELLANEOUS

Nov. 6	Heating and Ventilating Systems—Wilmore, Pa.	Nov. 2
Nov. 6	Grade Separation—Milwaukee, Wis.	Nov. 2
Nov. 8	Foundation—Cleveland, O.	Oct. 26
Nov. 9	Structural and Tank Steel—New Orleans, La.	Oct. 19
Nov. 9	Steel—Cleveland, O.	Nov. 2
Nov. 9	Concreting Voids—New York, N. Y.	Nov. 2
Nov. 10	Column Foundations — New York, N. Y.	Nov. 2
Nov. 13	High School Equipment—Wash., D. C.	Oct. 12
Nov. 16	Hoist and Trailers — San Jose, Calif.	Oct. 19
Nov. 16	Steel Shed—New Orleans, La.	Oct. 26
Nov. 21	High School Equipment—Wash., D. C.	Oct. 12
Nov. 21	Lumber—Ocean City, N. Y. Adv. Nov. 2.	Nov. 2
Nov. 24	Shaft—Brooklyn, N. Y. Adv. Nov. 2.	Nov. 2
Nov. 27	Electrical Work, Plumbing, Heating, etc. — Johnstown, Pa.	Nov. 2
Dec. 18	Coal Handling Plant — Melbourne, Victoria, Australia	Sept. 21

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

W. Va., Wheeling — City Council takes bids about Feb. 1, filtration plant, intake pier, reservoirs and pipe lines. $2,000,000. C. H. Dowler, city mgr. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs. Noted Oct. 5.

Miss., Corinth—City Council opens bids about Nov. 28 1,000,000 gal. filter plant, 210,000 gal. settling basin, pumping equipment and distribution system, incl., 25,212 ft. 4-6 in. c.i. pipe, 13 standard fire hydrants, one deep well pump, two 250 g.p.m. motor driven pumps, two 400 g.p.m. motor driven centrifugal pumps, one 250 g.p.m. wash pump, two 400 g.p.m. low pressure service pumps, one 600 g.p.m. spray pond equipment. $35,000. A. H Beard, 616 Title Guaranty Bldg., St. Louis, Mo, engr.

La., Gretna—Jefferson Parish plans 4 mi. circulating system, 8 and 12 in. mains, to

Waterworks (Continued)

supply 7th and 8th Wards of Metarie Ridge with water obtainable from New Orleans. $50,000 to $60,000.

O., Akron—S. Porter, clk. Summit Co., preparing plans and takes bids early in 1923, 3 mi. c.i. mains in Co. Sewer Dist. 5. $40,000; 6 mi. c.i. mains in Co. Sewer Dist. 13. $60,000. E. D. Barstow, 226 Ohio Bldg., co. engr.

O., Akron—S. Porter, clk. Summit Co., opens bids about Dec. 1, for 2½ mi. c.i. mains in Tallmadge Dist. 1. $35,000. E. D. Barstow, 226 Ohio Bldg., co. engr.

O., Canton—See "Miscellaneous."

O., Delaware—See "Industrial Works."

Ill., Galesburg — Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., Chicago, soon receives bids for reservoir and dam, here. $350,000. W. T. Krausch, engr. of buildings.

Ill., Vandalia—Making surveys and will take bids about Dec. 1, 500,000 gal. filter plant, 600 ft. intake, chemical treatment plant, 1 mi. 4 in. c.i. mains, etc. $30,000. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, Mo., engr.

Wis., Milton—Plans waterworks and sewerage system. $25,000. W. E. Rogers, clk. Engineer not selected.

Wis., Waupaca—Plans purchasing emergency pumping unit, incl. centrifugal pump, motor and machinery. F. A. Houseman, City Hall, clk. Engineer not selected.

Kan., Phillipsburg — Had plans prepared and soon takes bids complete waterworks system. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Mo., St. Charles—Preparing plans new water pumping plant. O. Boekemeier, city clk. A. L. Mullergren, 555 Gates Bldg., Kansas City, consult. engr.

Okla., Canton — Having plans prepared new waterworks system. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Cement—V. V. Long & Co., engrs., 1300 Colcord Bldg., Oklahoma City, submitted reports for water main extensions, electrical distribution system extensions and electrical power plant improvements. $30,000.

Okla., Cushing—City retained W. L. Benham of Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., as engineer for new water supply, waterworks and sewer extensions and sewage disposal plant. O. Block, city engr.

Okla., Guthrie—See "Sewers."

Tex., Austin—Bd. Water Comrs. having preliminary plans and surveys made for complete new waterworks system and possibly water filtration plant. Election later to vote on $500,000 bonds. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs.

Tex., Beaumont—Submitted $350,000 bond issue to Attorney Generals Dept., Austin, for approval, extending and improving waterworks. A. Fulweiler, city engr.

Tex., Celina—See "Industrial Works."

Tex., Celina—Election, Nov. 28 to vote on $50,000 bonds, watermains and additions to plant. Address J. E. Owsley, mayor. Engineer not selected.

Tex., Dallas — Making plans for dam, mains, etc., Denton Creek at Coppell or Grapevine. $2,000,000 or $5,000,000, according to location. G. Fairtrace, city engr. W. J. Powell, engineering supervisor of public utilities.

Tex., Gatesville—Voted $40,000 bond issue for waterworks improvements. Address Mayor.

Tex., Santa Anna — Attorney General's Dept., Austin, approved $25,000 bond issue for main extensions.

Calif., Manteca—Having plans prepared multiple septic tank. $10,000. W. S. Farley, Monadnock Bldg., San Francisco, engr.

Tex., Rotan—Nov. 28, to vote on $50,000 bond issue for waterworks system. Address Mayor.

Tex., Tulia—Voted $45,000 bond issue for extending and improving waterworks. Address Mayor. Noted Sept. 21.

Tex., Wylie—Nov. 9 to vote on $50,000 bond issue for waterworks system. Address G. W. Housewright, mayor.

Ont., Cannington—Having lans prepared waterworks system. $45,000. Prices wanted on all materials. James, Proctor & Redfern, Excelsior Life Bldg., Toronto, engrs.

Ont., Kingston—Having plans prepared filtration plant. $300,000. Prices wanted on all materials. H. Dick, city engr.

BIDS DESIRED

Mass., Springfield—Nov. 20, by Bd. Water Comrs., Municipal Bldg., furnishing c.i. water pipe and special castings. H. M. King, supt.; adv. this issue.

N. Y., Ossining—Nov. 15, by C. F. Rattigan, supt. of Prisons, Albany, installing water pipe in Sing Sing Prison, here; adv. this issue.

Miss., Bay St. Louis—Nov. 29, by Mayor and Bd. Aldermen, two gal. water, motor driven centrifugal fire pumps, 75,000 gal. tank and tower, 125,000 gal. concrete reservoir, 600 ton 4, 6 and 8 in. c.i. pipe. $90,000. Swanson-McGraw, United Fruit Bldg., New Orleans, La., consult. engrs.

O., Garfield Heights (Cleveland P. O.)—See "Sewers."

Mich., Elizabeth Park (Trenton P. O.)—Nov. 6, by Bd. Trustees, Wayne Co., 201 County Bldg., Detroit, trenching, laying and backfilling 4,400 ft. 6 in. and 9,200 ft. 4 in. Class B c.i. pipe. P. W. Keating, 517 Ford Bldg., Detroit, engr.

Tex., Dallas—Nov. 15, by City Com., 1,000,000 gal. concrete and steel standpipe, Sunset Addition-Oak Cliff. $80,000. G. Fairtrace, city engr.

BIDS RECEIVED

O., Kent—Opened bids Oct. 16, 15,160 ft. 6 in. mains (a) bell and spigot pipe (b) Universal pipe, from L. Garrett Constr. Co., Kent, (a) $29,539 (b) $28,430; E. and W. McShaffrey Co., Rhodes Ave., Akron, (a) $30,508, (b) $27,978; D. Lowensohn, 12603 Clifton Blk., Cleveland, (a) $34,761 (b) $34,290. Engrs. est. $26,749.

CONTRACTS AWARDED

N. Y., Canandaigua — Bd. Pub. Wks., City Hall, furnishing 2½ mi. 16 in. c.i. pipe, to U. S. Cast Iron & Fdry. Co., East Burlington St., Burlington, N. J., $48,259. Noted Oct. 12.

N. J., Newark—North Jersey Dist. Water Supply Comn., 20 Clinton St., great notch tunnel and approaches, Contr. 3, to Heyman & Goodman Co., 15 Exchange Pl., Jersey City, $918,297. Noted Oct. 24.

O., Cleveland Heights (Warrensville P. O.)—See "Sewers."

O., Parma Heights (near Cleveland)—For 22,622 ft. 12 in. mains, to D. Pfahl & Co., Guardian Bldg., Cleveland, $109,852. Noted Oct. 12.

Mich., Bay City—Superstructure for filtration plant, to Bay City Stone Co., Bay City. $167,000.

N. D., Hillsboro—Extending waterworks system incl. 1,164 lin.ft. 4 in. and 1,520 lin.ft. 6 in. c.i. pipe, also extending sewers incl. 720 lin.ft. 8 in. and 3,990 lin.ft. 12 in. sewer pipe, to W. Danforth, 810 Guardian Life Bldg., St. Paul, $15,000.

Mo., St. Louis—Bd. Pub. Serv., City Hall, furnishing and delivering 160 ton coated c.i. special castings, Contr. 1465, to Bessemer Fdry. & Material Co., Bessemer, Ala., $13,952; two hundred seventy 4-12 in. stop valves, one 20 in. and one 36 in. tapping valves, Contr. 1466, also 300 fire hydrant tops, St. Louis standard, Contr. 1467, to A. P. Smith Mfg. Co., Norman St., East Orange, N. J., $16,263 and $11,678 respectively. Noted Oct. 12.

Calif., Knights Landing (Grafton P. O.)—Meek Estate, rein.-con. pumping plant, using Byron Jackson pumps and G. E. motors, in Recl. Dist. 730, to L. F. Youdall, Commercial Savings Bank Bldg., Stockton, $22,429.

Sewers

PROPOSED WORK

Conn., Hartford—Plans sewers in private land, Tower Ave., Granby, Westbrook, Durham, Canaan, Manchester, Lyme, Harold, Pomfret, Simpson and Hartland Sts., 1,008 ft. 8 in., 7,549 ft. 10 in., 2,457 ft. 12 in., 215 ft. 15 in., 1,862 ft. 18 in., and 4,302 ft. 24 in. pipe. R. N. Clark, city engr.

N. J., Elizabeth—Making plans sewer under Elizabeth River at 3rd Ave. between Palmer and Garden Sts. $60,000. J. H. Fuertes, 140 Nassau St., New York City, engr.

N. J., Roselle—Making plans 12-24 in. tile and concrete sewers in vicinity of Pine St. and 9th Ave. $40,000. J. L. Bauer, 120 Broad St., Elizabeth, engr.

Miss., Corinth—City Council opens bids about Nov. 28, 5 mi. sanitary sewers in various streets, trenches 4½ ft. deep and 2 ft. wide, 26,400 ft. 8-10 in. vitr. clay pipe, 8,800-9,000 cu.ft. earth trenching, 110 manholes. $35,000. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, Mo., engr.

O., Akron — S. Porter, clk. Summit Co. takes bids about Dec. 1, approximately mi. vitr. clay or segmental block sanitary sewer in Sewer Dist. Tallmadge 1. $35,000. E. D. Barstow, 226 Ohio Bldg., co. engr.

O., Akron—S. Porter, clk. Summit Co. takes bids in about 6 weeks trunk sewer in main county Dist. 4 A, at Stow Corners. $25,000. E. D. Barstow, 226 Ohio Bldg., co. engr.

O., Akron—S. Porter, clk. Summit Co., preparing plans and takes bids early in 1923, 3 mi. vitr. clay or segmental block sewers in Co. Sewer Dist. 5, 3 allotments $40,000; 6 mi. vitr. clay or segmental block sewers in Co. Sewer Dist. 13, $70,000. E. D. Barstow, 226 Ohio Bldg., co. engr.

O., Canton—See "Miscellaneous."

O., Cleveland—Nov. 7, to vote on $3,000,000 bonds for brick, steel and concrete sewage disposal plant. G. B. Gascoigne, City Hall, engr.

O., West Park—Nov. 7, to vote on $400,000 bonds for sewerage system and sewage disposal plant. J. Reitz, City Hall, engr.

Ill., East St. Louis—Plans 18 mi. sewers in Lansdowne Dist., 1,250 ft. 54 in., 2,250 ft. 42 in., 1,500 ft. 36 in., 650 ft. 33 in., 4,450 ft. 30 in., 1,950 ft. 27 in. and 10,780 ft. 24 in. concrete pipe; 1,000 ft. 20 in., 5,560 ft. 18 in., 6,700 ft. 15 in., 8,880 ft. 12 in., 14,050 ft. 10 in. and 33,700 ft. 8 in. vitr. clay pipe. $504,000. May not mature for 2 or 3 years. E. F. Harper, City Hall, engr.

Wis., Marshfield—Having plans prepared sanitary and storm sewers, incl. septic tank, $25,000. G. Leonard, clk. T. Pankow, Washington Bldg., Madison, engr.

Wis., Milton—See "Waterworks."

Minn., Rochester—Plans sewage disposal plant. $125,000. C. H. Armstrong, city engr.

S. D., Leola — Having plans prepared sanitary sewerage system and disposal plant. $25,000. Cory & LeCocq, Aberdeen, engrs.

Wyo., Laramie—Soon receives bids 44,000 ft. 8 to 36 in. trunk sewers $160,000 E. K. Nelson, city engr.

Mo., Paris—Takes bids within 20-30 days addition to sewerage system, vitr. clay, $27,000. R. W. Rollins & Co., 521 Rv. Exch. Bldg., Kansas City, engrs.

Tex., Tulia—Voted $30,000 bond issue for sewerage extensions and improvements. Address Mayor. Noted Sept. 21.

Okla., Cushing—See "Waterworks."

Okla., Guthrie—V. V. Long & Co., engrs., 1300 Colcord Bldg., Oklahoma City, submitted estimates of cost for sewerage system $18,000; waterworks $16,000. G. Anderson, clk.

Okla., Shattuck—Had plans prepared for sewer laterals. $45,000. H. G. Olmsted & Co., 415 Oil Exch. Bldg., Oklahoma City, engrs. Noted May 4.

Colo., Denver—Takes bids after Dec. 15. Eastern Capitol Hill special sanitary sewer, 34,000 ft. 8-12 in. vitr. pipe. $34,300. A. K. Vickery, City Hall, engr.

N. M., Santa Fe—Making plans complete sewage plant. $115,000. H. F. Gray, Santa Fe (street address not available), engr.

Calif., Lodi—Plan election to vote on $100,000 bonds for sewage disposal plant. C. F. Smith, 7 Nottingham St., Berkeley, engr. Noted May 11.

Calif., Paso Robles—City trustees plan sewers in 33 blocks.

Ont., Sandwich—Having plans prepared sewage disposal plant. $150,000. Prices wanted on all materials. McColl & Patterson, Gas Bldg., Windsor, engrs.

BIDS DESIRED

N. J., Hillside — Nov. 8, by Township Clerk 12,000 ft. 12-45 in. tile and concrete sewers, 75 manholes and 65 catch basins. $200,000. W. H. Luster, 286 North Broad St., Elizabeth, engr.

D. C., Wash.—Nov. 13, by Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., for sewer in Mt. Rainier and vicinity, Contr. 33-S. R. B. Morse, Hyattsville, Md., ch. engr. of district; adv. this issue.

O., Cleveland Heights (Warrensville P. O.)—Nov. 6, vitr. storm and sanitary sewer in Ardmore Sewer Dist. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs

O., Garfield Heights (Cleveland P. O.)—Nov. 13, sewers in 7 streets and c.i. mains in 3 streets. To exceed $25,000. R. F. Munz, Turney Rd., engr.

Sewers (Continued)

BIDS RECEIVED

N. Y., New York — H. Bruckner, pres. Bronx Boro, Tremont and 3rd Aves., opened bids Oct. 24, sewers in (1) Waterbury Ave. (2) Odell St. (3) Laconia Ave., from Anita Constr. Co., 2975 Marion Ave., (1) $7,172 (2) $4,633; Knight & Demico, 448 East Tremont Ave., (1) $7,367; B. T. McDonald, (1) $7,449; J. B. Timmoney Co., 320 East 201st St., (2) $4,574; J. L. Sigretto, Woodhaven, (2) $4,700 (3) $155,585; J. B. La Marsh, La Salle and Gelespie Aves., (3) $138,888; Clementi Contg. Co., 1195 Spofford St., (3) $157,301. Noted Oct. 19.

N. J., Dover — Bd. Aldermen and Bd. Sewerage, Municipal Bldg., North Sussex St., opened bids Oct. 23, (a) tile (b) concrete sewers and appurtenances, from C. F. Goeringer Constr, Co., 51 South Washington St., Wilkes-Barre, Pa., (a) $388,164 (b) $379,497; C. Ippolito, 252 Main St., Orange, (a) $421,881 (b) $407,933; Interstate Constr. Co., 52 Van Ripen Ave., Jersey City, (a) $422,262 (b) $410,338. Noted Oct. 5.

Mich., Detroit—Brick or monolithic concrete sewers in (1) Southern Ave. Arm of Lonyo Rd. Sewer, (2) Lawton Ave. Arm of Morrell St. Sewer, from W. Blanck Co., 823 Ford Bldg., (1) $36,244; J. Porath, 745 Griswold St., (1) $39,464 (2) $37,606; J. A. Mercier, 216 Hammond Bldg., (1) $33,723 (2) $34,941; R. D. Baker, 1631 Elmhurst Ave., (2) $37,695.

Mich., Springwells — Opened bids (1) Sect. 16 Barclay Ave. Trunk Extension, (2) Sect. 17 Maple Rd. Sewer, (3) Sect. 18 Dix Ave. Sewer, (4) Sect. 19, Eagle Rd. and Ford Ave. Sewers, from R. A. Mercier, 5435 Wesson Ave., Detroit, (1) $145,000; J. Porath, 745 Griswold St., Detroit, (1) $148,900; Gass-Thurston Co., 1520 15th St., Detroit, (1) $151,000; Liberty Constr. Co., 1026 Book Bldg., Detroit, (2) $8,359, (3) $19,638, (4) $9,956; A. Rossi, 5585 Pennsylvania Ave., Detroit, (2) $8,570; W. Porath, 35 McGraw Bldg., Detroit, (2) $11,120, (3) $22,734, (4) $12,477; Hammen & Co., 4612 Woodward Ave., Detroit, (3) $23,612, (4) $14,878. Noted Oct. 19.

Neb., Omaha—Sewers in Dist. 780, Victor St. between Bancroft, Dorcas, 5th and 6th Sts., 8,830 lin.ft. 8 to 36 in. pipe, from Kruse Constr. Co., Spencer, Ia., $22,066, H. J. Petersen Co., 403 Farnam Bldg., $22,570, Omaha Sewer Constr. Co., 4535 Parker St., $26,855; in Dist. 770, Pacific St. from 52nd to 55th Sts., 335 ft. 8 in. and 335 ft. 15 in. pipe, from J. Jensen, 2625 Wirt St., $828; in Dist. 778, 2nd St. from Hickory to Cedars Sts., 315 ft. of 18 in. pipe, etc., from G. Carlson, 2449 Larimore Ave., $2,603, H. J. Petersen, 403 Farnham Bldg., $2,699, E. P. Donahue, 306 Lincoln Blvd., $2,763.

Mo., Maplewood—For 29,018 ft. 8-36 in. vitr. clay and 1,100 ft. segmental block sewers, draining 135 acres land in southwest Maplewood, 31,400 cu.yd. earth trenching, 1,189 cu.yd. macadam, 98,681 lb. c.i. manhole frames and covers, etc., from A. Lewald, 5909 Ethel Ave., St. Louis, $169,689; E. A. Yahr, Antigo, Wis., $169,919; J. Walker Contg. Co., Cleveland, O. (street address not available), $192,000. Engrs. est. $172,000.

CONTRACTS AWARDED

N. Y., Buffalo—For 27 in. tile sewer in Hewitt Ave., to Dark & Co., 654 Main St., $8,783; 10-15 in. tile sewer in East Hertel Ave. and 10-24 in. tile sewer in Lenox Ave., to J. M. Fahning, 460 Leroy Ave., $4,283 and $2,418 respectively; 10-20 in. tile sewer in Parkridge Ave. and 10-15 in. tile sewer in Cornwall Ave., to L. Di Pasquale, Buffalo (street address not available), $5,315 and $5,803 respectively.

N. Y., Rochester—For 1,910 ft. 15-24 in. vitr. tile and 1,477 ft. 34-60 in. segmental block sewer in Mt. Read Blvd., Otis St. and Lyell Ave., to Rochester Foundation Co., 205 E and B Bldg., $66,339, engrs. est. $88,552; 1,642 ft. 12 in. sewer in Acorn St., to W. E. Kinney Co., 62 State St., $14,424; 400 ft. 12 in. sewer in Ravenwood Ave., to J. Petrossi & Co., 401 Elwood Bldg., $3,372; 1,135 ft. 12 in. sewer in Woodbine Ave., to J. Passero, $6,099.

N. Y., Rochester — See "Streets and Roads."

O., Cleveland—For 740 ft. of 5 ft. and 500 ft. 4 ft. circular brick and 380 ft. 12-24 in. vitr. tile sewer in Bessemer Ave., to P. W. Graham, 1274 West 108th St., $46,679; 275 ft. 24 in. vitr. tile sewer in Lake Shore Blvd., to Kassouff & Co., 3182 West 25th St., $4,168. Noted Oct. 26.

O., Cleveland Heights (Warrensville P. O.)—Sewers in South Compton and Ridgefield Rds., to B. H. Whittaker, 335 The Arcade, Cleveland, $8,110, Hyde Park and Blanch Rds., to Patermo & Consolo, 14110 Benwood Ave., Cleveland, $35,821; water mains in Blanch, South Compton and Hyde Parks Rds., to B. H. Whittaker, 335 The Arcade, Cleveland, $17,262. Noted Oct. 12.

O., Maple Heights (Worthington P. O.)—Sewers in Bway., to Hadded-Mall Co., Schofield Bldg., Cleveland, $166,954. Noted Oct. 26.

Ind., Hammond—Constructing north side system, 24 to 84 in. sewers, to United Constr. Co., Hammond, $846,596; south side system, 54 to 108 in. sewers, to Proudfoot Constr. Co., 127 North Dearborn St., Chicago, $423,784; 24 to 30 in. sewers in South Hohman St., to Public Constr. Co., Hammond, $42,258; system of 8 to 27 in. sewers, to J. J. Nejdl, Whiting, $37,762.

Ill., Galva—Constructing sewerage system and remodeling disposal plant, to Natl. Constr. Co., 309 Putnam Bldg., Davenport, Ia., $25,000.

Wis., Ellsworth—Sanitary sewers in various streets, incl. 25,900 lin.ft. 8-12 in. pipe, to Camden Constr. Co., c/o J. B. Camden, Benson, Minn., $30,732; 3 Imhoff tanks, etc., to W. L. Oltman and F. H. Johnson, Ellsworth, $16,942. Noted Oct. 5.

Wis., Milwaukee—Intercepting sewer in 1st Ave., 3,450 lin.ft. 60 in. plain concrete sewer in tunnel, 1,030 lin.ft. 60 in. concrete sewer in open cut, 970 lin.ft. 60 in. rein.-con. sewer in open cut, also siphon incl. 1,415 ft. 12-30 in. c.i. pipe, etc., to H. Hohensee, Ludington Ave., Wauwatosa, $149,586 and $14,800 respectively.

Neb., Silver Creek — Sewerage system incl. 13 x 10 pump house, 2 centrifugal pumps with 5 hp. motors or 1 duplex automatic electric sewage ejector, to H. J. Peterson Co., 403 Federal Reserve Bldg., Omaha. Engrs. est. $28,000. Noted Sept. 14.

N. D., Hillsboro—See "Waterworks."

Tex., Laredo—For 15,666 ft. 12-24 in. standard vitr. pipe sewers and 33 manholes in 7th Ave. to Janes Constr. Co., San Antonio, (street address not available), $638,430. Noted Oct. 5.

Utah, Salt Lake City—City Comrs., 29,000 ft. of 8-18 in. vitr. sewers, Northwest

WATERWORKS—MEMPHIS, TENN.

Following are lowest three bids opened Oct. 6, by Bd. Comrs. Memphis Artesian Water Dept., for rein.-con. reservoir, substructures of pumping station, iron removal plant, etc., Contr. No. 6, (A) D. D. Thomas & Sons, 463 North Dunlap St., (awarded contract); (B) Gauger-Korsmo Constr. Co., St. Paul, Minn.; (C) A. Bentley & Sons Co., Toledo, O. The unit bids were as follows:

	A	B	C
85,000 cu.yd. earth excavation and backfill for structures and general grading	$0.462	$0.58	$0.51
3,500 cu.yd. earth excavation and grading for railroad siding	.462	.45	.38
5,000 cu.yd. earth excavation and backfill for trenches, etc. on site	1.10	2.75	.83
3,000 cu.yd. earth excavation and backfill for trenches, etc.—outside	1.50	2.90	.93
500 cu.yd. earth excavation for foundations below depths shown	3.00	1.25	1.50
55,000 cu.yd. disposal of surplus material from site	.37	.35	.36
6,600 cu.yd. class "A" concrete for reservoir and equalizing basin	13.73	15.49	18.50
5,100 cu.yd. class "A" concrete for substructure of pumping station	14.02	16.49	16.80
310 cu.yd. class "B" concrete for chimney foundations	10.37	14.48	11.00
1,650 cu.yd. class "B" concrete for machinery foundations	10.37	14.48	11.60
100 cu.yd. additional class "B" concrete for foundations	12.72	15.00	10.30
1,200 cu.yd. class "A" concrete for sub. of iron removal plant below elevation 143.0	15.26	16.49	18.30
450 cu.yd. class "A" concrete for super. of iron removal plant above elevation 143.0	22.33	16.49	29.10
1,300 cu.yd. class "A" concrete for conduits, filter tanks and wash water tank	19.59	17.32	21.00
31 cu.yd. class "D" concrete for wash water gutters of iron removal plant	20.00	19.50	71.00
530 cu.yd. class "A" concrete for substructure of aerator below elevation 143.0	15.56	16.49	21.50
100 cu.yd. class "C" concrete for superstructure of aerator above elevation 143.0	23.00	17.32	37.00
25,000 sq.ft. machine surfacing of concrete	.045	.06	.10
1,200,000 lb. steel reinforcement	.036	.0375	.0435
210 tons c.i. pipe B & S	73.23	97.35	70.00
50 tons c. i. pipe, flanged	157.50	132.00	133.40
40 tons c. i. specials B & S	177.75	175.00	221.00
50 tons c. i. specials, flanged	178.50	231.00	252.00
1,000 lin.ft. 42 in. concrete drain	13.05	7.46	6.85
480 lin.ft. 30 in. concrete drain	20.21	4.94	4.30
250 lin.ft. 24 in. vitrified pipe	1.96	5.30	3.30
250 lin.ft. 18 in. vitrified pipe	1.22	3.26	2.15
1,130 lin.ft. 12 in. vitrified pipe	.69	1.81	1.35
640 lin.ft. 8 in. vitrified pipe	.48	1.10	.90
350 lin.ft. 6 in. vitrified pipe	.27	.485	.40
1,020 lin.ft. 4 in. vitrified pipe	.21	.35	.30
Vitrified specials (per cent discount)	List	50%	20%
200 cu.yd. brick masonry	18.00	16.75	23.40
70,000 lb. miscellaneous cast iron	.09	.085	.08
4,000 lb. miscellaneous steel	.05	.094	.14
50M ft. b.m. sheeting and timbering left in place	20.00	20.00	20.00
20,000 lb. steel sheeting left in place	.02	.02	.02
50M ft. b.m. timber for foundations	60.00	65.00	53.00
100 lin.ft. piles	5.00	2.00	2.50
350 cu.yd. broken stone or gravel	3.50	3.90	4.40
Valves (lump sum)	29,109.00 K	22,791.00 CL	23,645.00 K
Valves, alternate (lump sum)	29,319.00 E	31,166.00 R	24,200.00 E
Valves, alternate (lump sum)	29,374.00 CL	27,686.00 Ch	24,200.00 CL
Valves, alternate (lump sum)	36,691.00 Ch	.....	29,231.00 M
Valves, alternate (lump sum)	38,549.00 R	.....	30,114.00 Ch
Sluice gates (lump sum)	5,648.00 CL	4,380.00 CL	4,014.00 Cf
Sluice gates, alternate (lump sum)	4,915.00 Ch	4,191.00 Ch	4,046.00C & W
Sluice gates, alternate (lump sum)	.....	.....	4,485.00 CL
Sluice gates, alternate (lump sum)	.....	.....	4,590.00 M
3,000 ft. b.m. stop planks	165.00	65.00	122.00
Venturi meters (lump sum)	14,490.00 S	11,555.00 B	12,370.00 S
Venturi meters, alternate (lump sum)	14,496.00 B	11,600.00 S	14,337.00 B
Venturi meters, alternate (lump sum)	.....	.....	12,584.00 S
Filter rate controllers (lump sum)	12,810.00 S	10,900.00 B	13,460.00 B
Filter rate controllers, alternate (lump sum)	15,737.00 B	.....	.....
Filter rate controllers, alternate (lump sum)	.....	.....	.....
Engineers office (lump sum)	300.00	350.00	$350.00
160 lin.ft. electric conduit	1.60	.80	1.00
160 lin.ft. steam line	2.00	5.00	3.60
Extended totals Combination 3- Eddy valves, Simplex meters and controllers	$516.718	$544,401	$564,815

Key:—K, Kennedy; E, Eddy; CL, Clow; Ch. Chapman; R. Rensselaer; M, Michigan; C & W, Caldwell & Wilcox; Cf., Coffin; S, Simplex; B, Builders.

Sewers (Continued)

Dist., to J. O'Conner, Utah Savings Bldg., $84,340. Engrs., est. $94,000. Noted Sept. 28.

Ont., Hamilton—G. Coppley, mayor and chn. Bd. Control, storm sewer, up to 36 in., in Kenilworth Ave., to Central Foundation Co., 14 Wellington St., Toronto, $84,994. Noted Oct. 12.

Waste Disposal

PROPOSED WORK

O., Cleveland—City plans 3 story garbage reduction plant, brick, steel and concrete, Canal Rd. $1,000,000. F. E. Osborn, 700 Rose Bldg., engr. Noted Feb. 9.

Bridges

PROPOSED WORK

North Carolina—State Hy. Comn., Raleigh, plans reconstructing bridges over Neuse and Trent Rivers, Craven Co. $25,000. C. M. Upham, Raleigh, state highway engr.

La., Jennings—State Hy. Dept., Redmond Bldg., Baton Rouge, having plans prepared bridge over Mermentau River, here, $225,000. Waddell & Son, 800 Graphic Art Bldg., Kansas City, Mo., consult. engrs.

Kan., Columbus—Comrs. Cherokee Co. soon take bids Marsh arch bridge over Brush Creek, on Spring Valley Rd., one 130 ft. span. $30,000. L. Noftzeger, co. engr.

Kan., Hutchinson — Reno Co. making plans deck girder bridge over Arkansas River, to have twelve 40 ft. spans. $40,000. W. A. Stacey, co. engr.

Kan., Kansas City—Had plans prepared and takes bids about Nov. 16, 3 mi. rein.-con. viaduct, 30 ft. roadway, two 6 ft. sidewalks, across Rock Island tracks. $750,000. R. L. McAlpine, City Hall Bldg., engr.

S. D., Woonsocket—Sanborn Co. rejected bids opened Sept. 16, bridge on Federal Aid Project 59, Sect. C, over James River, 340 ft. long with center steel truss of 100 ft. Noted Sept. 21.

N. D., Pembina—Pembina Co. plans 500 ft. steel bridge, concrete piers and abutments, over Red River. $26,000. W. W. Felson, co. aud. Engineer not announced.

Mo., St. Louis—Bd. Pub. Serv., 228 City Hall, plans 1,100 ft. concrete bridge, 80 ft., with 550 ft. southern and 200 ft. northern approach to replace old 14th St. viaduct spanning Terminal and Missouri Pacific R.R. tracks, from Chouteau Ave. to Spruce St., etc., 13,200 cu.yd. earth excav., 40,000 lin.ft. concrete piling, 16,400 cu.yd. rein.-con., 1,000 ton reinforcing, 5,400 lin.ft. granite curb, 11,300 sq.yd. granite block paving and 7,000 sq.yd. concrete sidewalks. $595,000. L. R. Bowen, Div. Bridges & Buildings, 301 City Hall, ch. engr.

Ark., De Valls Bluff—State having plans prepared 600 ft. bridge over White River, near here, three 200 ft. spans, 20 ft. roadway, steel, rein.-con. and timber. $150,000. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs.

Idaho, Emmett—Comrs. Gem Co. take bids after Nov. 6, one 75 ft. pony truss and three 20 ft. steel spans, concrete abutments. $25,000.

BIDS DESIRED

New Jersey—Nov. 15, by State Hy. Dept., Trenton, concrete and steel bridge over north branch of Raritan River in municipalities of Bridgewater and Bedminster, Somerset Co. J. L. Vogel, 772 Broad St., Newark, bridge engr.; adv. this issue.

Pa., Phila.—Nov. 29, by Delaware River Bridge Joint Comn. at Room 806, Widener Bldg., 2 main towers of bridge over Delaware River between here and Camden, N. J.; adv. this issue.

Pa., Pittsburgh—Nov. 20, at office J. P. Moore, controller Allegheny Co., Court House, 5th Ave. and Grant St., Bridge 7 over Allegheny River; adv. this issue.

Mich., Detroit—Nov. 7, by Michigan Central R.R. Co., Michigan Central Terminal, fabrication and delivery of steel for Bridge 50.54, air line division.

Colorado—See "Streets and Roads."

BIDS RECEIVED

N. J., Dover—State Hy. Dept., Trenton, opened bids Oct. 24, repairing 1¼ mi. bridge over Barnegat Bay from Seaside Heights to Island Heights, here, from L. J. Seiling, Red Bank, $83,718; R. J. Mansfield, 53 Park Pl., New York City, $85,927; General Contg. & Eng. Co., 40 Rector St., New York City, $88,815. Noted Oct. 12.

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on (1) State Project 152, Hyde Co., (2) State Project 133, Gates and Pasquotank Counties, (3) State Project 254, Lenoir and Pitt Counties, from O. A. Mann & Co., La Grange, Ga., (1) $29,928; C. W. Lacy, Wilmington, (1) $32,512; (2) $36,716; Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., (2) $34,463; Roanoke Iron & Bridge Co., Roanoke, Va., (3) $64,942; Atlantic Bridge Co., Roanoke, Va., (3) $72,900. Noted Oct. 12.

Colo., Pagosa Springs—State Hy. Dept., Denver, opened bids, 125 ft. span through truss steel bridge, graveled approaches, here, from Plains Constr. Co., 424 E & C Bldg., Denver, $30,261; Monarch Eng. Co., Box 1196, Denver, $32,865; Levy Constr. Co., 620 Symes Bldg., Denver, $34,493. Engrs. est. $30,738.

CONTRACTS AWARDED

Miss., Yazoo City—See "Streets and Roads."

Tennessee — State Hy. Dept., Nashville, bridges over 20 ft. span on road from Carthage to Smith Co. line, Project 68, Smith Co., to Phillips, Simpson & McGugin, Stahlman Bldg., Nashville, $61,929.

Mich., Crystal Falls—State Hy. Dept., Lansing, building Bridge 360,205, two span concrete arch, 240 ft. long, 24 ft. roadway, to Smith & Holmes, Crystal Falls, $58,902. Noted Oct. 5.

Ia., Maquoketa—Jackson Co., 36 concrete box culverts and extensions, 3 pony truss spans, rein.-con. abutments, to J. Anderson & Son, Maquoketa, $59,748.

Idaho, Wallace—W. I. Bassett, dist. engr. Bureau Highways, Coeur d'Alene, four 90 ft. steel bridges, concrete substructures, between here and Kellogg, to W. A. Byers, 1204 Mansfield St., Spokane, Wash., $45,032. Noted Oct. 26.

Dams

PROPOSED WORK

Pa., Sharpsville—Sharpsville Improvement Assn., plans large concrete dam at foot of Shenango St., incl. concrete wall and series of flood gates, to exceed $50,000. W. Mertz, pres. Engineer not announced.

Mich., Centerville—O. G. Roehling, 940 Edgecomb Pl., Chicago, Ill., had plans prepared 500 ft. concrete, tile and stone dam across river, 11.6 ft. above river bed, without lock, apron or chute, but to have fish ladder and constructed to accordance with statutes of Michigan.

Ill., Galesburg—See "Waterworks."

N. D., Mandan—Morton Co. plans 700 ft. concrete and rock dam, 70 ft. high, in Heart River south of Glen Ullin, to irrigate 15,000 acres. $50,000. Engineer not announced.

Tex., Breckenridge — Chamber of Commerce plans to form Improvement District and make surveys for dam site on Clear Fork Brazos River, to irrigate 40,000 acres. J. A. Norris, Austin, State Bd. Water Engr.

CONTRACTS AWARDED

Wis., Laona—Connor Lumber Co., will build steel and rein.-con. dam, by day labor. L. A. DeGuere, Wisconsin Rapids, engr. Noted Oct. 12.

Railways

PROPOSED WORK

Ontario—Niagara, St. Catherine & Toronto Ry., Stamford, plans to completely rebuild local lines, and lines between Port Dalhousie and Stamford, incl. pavement between tracks. $2,000,000. E. J. Oliver, genl. mgr.

BIDS RECEIVED

New York—Transit Comn., 49 Lafayette St., New York City, opened bids Oct. 26, constructing Sect. 3 of Route 52, part of Rapid Transit R.R., Flushing Route, from Oakdale Contg. Co., Harris & East Aves., Long Island City, $1,635,990; F. L. Cranford, 149 Remsen St., Brooklyn, $1,753,000; J. Schlesinger, Inc., 259 West 30th St., New York City, $1,795,375. Noted Oct. 19.

Excavation, Drainage, Irrigation

PROPOSED WORK

Wis., Kenosha—Kenosha Co. Drainage Bd. excavating and laying 9,200 lin.ft. 8-24 in. tile and drain pipe. $20,000-$25,000. W. E. O'Brien, Courthouse Annex, engr.

Wis., Woodworth — Kenosha Co. Farm Drainage Bd. making plans excavating and laying 9,200 ft. 8-24 in. tile drains. $25,000. J. Edwards, Woodworth, Secy. W. E. O'Brien, Courthouse Annex, Kenosha, engr.

Mo., Alexandria—Des Moines & Mississippi Levee Dist. 1, Clark Co., Keokuk, Ia., having surveys made enlarging and extending present ditch system and constructing pumping plant to protect 12,000 acres land from Mississippi and Fox River overflow. $250,000. Morgan Eng. Co., Goodbar Institute, Memphis, Tenn., engrs.

Tex., Breckenridge—See "Dams."

Wash., Dayton—Cities of Dayton and Pomeroy plan irrigating 25,000 acres land at cost of $75 to $80 per acre, 16 mi. concrete and steel flume, 2,400 ft. and 700 ft. tunnels, 2 large syphons, water to be diverted from Tucannon River. $2,000,000. J. Strack, Ziegler Bldg., Spokane, engr.

Wash., Wenatchee—Greater Wenatchee Irrigation Co. plans irrigating 26,000 acres land, water to be carried up Columbia River as far at Brays and up Moses Coulee. $1,300,000. Engineer not selected.

Calif., Banning — San Gorgonia Power Co. had plans prepared 8,410 lin.ft. canal, 3 ft. wide, 2 ft. deep, concrete lined, forebay for power houses, storing 121,000 ac. ft., 2 power plants as follows: No. 1, fall of 1,774 ft., 16 sec.ft., through penstocks. No. 2, fall of 898 ft., 4,857 hp. to be developed. W. L. Huber, 1st Natl. Bank Bldg., San Francisco, engr.

Ont., Loiselleville—Council of Sandwich South Twp. plans to raise $75,000 for drainage work. J. McAuliffe, Oldcastle, twp. clk.

BIDS DESIRED

Ala., Mobile—City Comrs. receiving bids main canal, 6 ft. deep, 30 ft. wide, running from tide water of Dog River to near the government street road, near Sage Ave., draining 6,000 acres, also 3 small canals from north, west and southwest into Dog River. $70,000. S. M. Adams, Mobile, engr.

La., Lake Providence—Nov. 15, by Bd. Comrs. Tensas Bayou D.D., excavating Tensas Bayou Canal as outlet canal for Tensas Bayou D.D., 3rd D.D. and 1st and 2nd Wards D.D., also 3 laterals canals in Tensas Bayou D.D., incl. 1,600,000 cu.yd. excav. J. R. Adams, Lake Providence, engr.

Ariz., Maricopa—Nov. 10 by Dirs. Maricopa Irrigation Dist., furnishing labor, material and construction of necessary machinery and equipment and installation of general irrigation system, incl. drilling approximately 17 single wells and 36 batteries of 3 wells each, construction and concrete lining necessary shafts, pumping chambers and connecting tunnels, construction of derricks, towers, housing, furnishing and installing pumps and motors, will all wiring, switching and appurtenances for 23 single wells and 37 batteries of 3 wells each, construction 51 mi. 11,000 volt transmission line, installation 60 pole type transformer stations, complete with transformers, lightning arresters, switches, etc. and excavation of approximately 74 mi. distributing ditches. D. H. Smith, secy. H. S. Reed and S. K. Baker, 419 Fleming Bldg., Phoenix, engrs.

BIDS RECEIVED

Minn., Minneapolis—Bd. Park Comrs., City Hall, dredging Lake Calhoun and filling lowland and neighboring boulevards. 85,500 cu.yd. sand shore dykes, 264,400 cu. yd. sand fill, 312,200 cu.yd. mud fill, from A. R. Thayer, 1003 St. Clair St., St. Paul, $136,639; Minneapolis Dredging Co., Metropolitan Life Bldg., $148,539; La Crosse Dredging Co., 405 Plymouth Bldg., $153,191. Noted Sept. 21.

CONTRACTS AWARDED

S. C., Kingstree—Comrs. Williamsburg, Florence and Clarendon Counties, 1,250,000 cu.yd. earth excav., to E. J. Doane & Sons, Mason, Mich., $150,000. Noted Sept. 21.

Ind., Hammond—Constructing new pumping station for new north and south side system, to Ahlborn & Bates, Hammond, $227,324.

Ind., Terre Haute—Constructing Gundy Run Drainage System, to J. P. Babcock, Paris, Ill., $0.143 per cu.yd.

S. D., Yankton—Yankton Co., Missouri River Drain Dist. 1, incl. 12 current retards, 600 lin.ft., to Woods Bros. Constr. Co., Lincoln, (street address not available), $30,000.

Mont., Columbus—Stillwater Co. rebuilding 55 mi. Cove Ditch, to J. Gibson, Fromberg, $55,000.

Streets and Roads

PROPOSED WORK

Pa., Oil City—Plans paving Central Ave. and Butler Alley. $25,000. W. Weber, city engr.

Md., Baltimore—Plans grading and paving Ethland Ave., Southern Ave. from Eloise to Edna Aves., Halcyon Park Rd. from Eloise Ave. to alley east of Edna Ave., Clarendon Ave. from Kathland Rd. to point 185 ft. north, Meriwent Ave. from Clarendon Ave. to Hillsdale Rd., Blythewood Rd. from Charles St. to Wyndhurst Ave. H. G. Perring, city engr. R. K. Compton, 214 East Lexington St., chn. paving com.

North Carolina—State Hy. Dept., Raleigh, plans grading and surfacing 6 mi. road from Lilling to Mamers, Project 440. Harnett Co., $35,000, 19 mi. road from Oxford to Durham Co. line, Project 432, Granville Co., $100,000, 5 mi. road from Franklinton to Vance Co. line, Project 422, Franklin Co., $30,000, 9.8 mi. road from Bragg-town to Granville Co. line, Project 413, Durham Co., $50,000, 12 mi. road from Henderson to Franklin Co. line, Project 474, Vance Co., $60,000, 8.5 mi. Macon-Littleton Rd., Project 496, Warren Co., $43,000, 8.58 mi. road from Muddy Creek to Danbury, Project 750 B, Stokes Co., 11 mi. Waynesville-Canton Rd., Project 944, Haywood Co., $60,000; grading and concrete or asphaltic paving 2 mi. road from Roxboro north toward Virginia State Line, Project 465, Person Co., $60,000, 10 mi. road from Neuse River to Franklin Co. line, Project 488, Wake Co., $300,000, 5.5 mi. road from Raleigh east to Neuse River, Project 487, Wake Co., $154,000; clearing, grading and topsoiling 13.5 mi. road from Wake Co. line to Wilson Co. line, Project 164, Nash and Johnson Counties, $67,500; 9 ft. concrete or asphaltic paving 13.5 mi. Winton-Gatesville Rd., Project 131 B, Gates and Hertford Counties, $189,000, 10.9 mi. Gatesville-Sunbury Rd., Project 132 B, Gates Co., $154,000; 16 ft. concrete or asphaltic paving 15 mi. Greenville-Beaufort Rd., Project 185 B, Pitt Co., $433,500; re-surfacing with asphalt 20 mi. Mamers-Sanford Rd., Project 444, Lee and Harnett Counties, $25,000; reconstructing 7.5 mi. brick road between New Bern, Pollocksville and Bridgeton Rd., Craven Co., $35,000; grading and surfacing 10 mi. Pittsboro-Lee Co. line Rd., also bridge over Deep River, Project 404, Chatham Co., $70,000, 19.5 mi. Silver City-Lee Co. line Rd., and bridge over Deep River, Project 405, Chatham Co., $120,000. C. M. Upham, state highway engr.

North Carolina—State Hy. Dept., Raleigh, received no bids Oct. 25, grading and concrete or asphaltic paving 9.89 mi. road, Project 113 B, Chowan Co., $114,580. Will readvertise. C. M. Upham, state highway engr. Noted Oct. 12.

Fla., Stark—Bradford Co. having plans prepared 12 mi. Sanderson Rd. from Stark to Redding Bridge, $48,000; 7 mi. Lawtry-Raiford Rd., $28,000; 7 mi. road from Brooker to Wynn farm via Graham, $28,000. E. R. Neff, Stark, engr.

Tenn., Shelbyville—H. B. Cowan, mayor, rejected bids improving various streets. Noted Oct. 19.

O., Canton—See "Miscellaneous."

Michigan—State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 4 mi. Assessment Dist. Rd. 283, Branch and Hillsdale Counties, and 4 mi. Assessment Dist. Rd. 326, Branch Co. F. F. Rogers, state highway comr.

Mich., Detroit—Plans grading and paving with 3½ in. sheet asphalt on 8 in. concrete 2,450 sq.yd. Reeder Ave. from Junction to Cavalry Aves., 26 ft., $17,470; with one course concrete on 6 in. concrete, 6,000 sq. yd. alley between Garland, St. Clair, Mack and Canfield Aves., 18 ft., $15,660, 3,000 sq.yd. alley between Maxwell, Seminole, Warren and Moffat Aves., 20 ft., $5,100, 700 sq.yd. alley between Mitchell, McDougall, Willis and Canfield Aves., 18 ft., $1,890. J. W. Reid, city engr.

Ill., East St. Louis—Making plans asphalt paving 2,000 ft. St. Clair Ave. from 1st to Collinsville Ave., 50-60 ft., 8,940 sq.yd. asphalt on present brick. $35,730. E. F. Harper, City Hall, engr.

Ill., Sparta—Making plans paving, $500,000. Bruce & Grupe, 408 Finance Bldg., Omaha, Neb., engrs.

Ill., Vandalia—Making survey grading, paving and curbing 3,500 ft. Main St., 30 ft., 7,000 lin.ft. curbing. Will start work in spring. $40,000. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, Mo., engr

Wis., Mayville—Having plans prepared improving Horicon, School, Williams and Allen Sts., 25,000 sq.yd. concrete, concrete curb and gutter. $30,000. J. Donohue Co., 608 North 8th St., Sheboygan, engrs.

Ia., Anita—Takes bids about Jan. 1, 40,000 sq.yd. paving, vitr. brick, asphalt, sheet asphaltic concrete, artificial stone or macadam. Bruce & Grupe, 408 Finance Bldg., Omaha, Neb., engrs.

Ia., Chariton—Making plans paving 15 blocks. $50,000. Price & McCormick, 215 Securities Bldg., Des Moines, engrs.

Minn., St. Paul—Plans paving Berkeley, Stanford, Jefferson and Wellesley Sts. from Frederick to Fairview Aves. $36,496. O. Claussen, city engr.

Kan., Columbus—Comrs. Cherokee Co. soon take bids concrete paving 4.6 mi. Spring Valley Rd., Federal Aid Project 142, 18 ft. $200,000. L. Nottzeger, co. engr.

Kan., Girard—Comrs. Crawford Co. soon take bids paving 0.942 mi. Arcadia Branch of Commercial Highway, 18 ft., Concrete or brick. $35,000. C. M. Cooper, co. engr.

Kan., Independence—Comrs. Montgomery Co. soon take bids bituminous macadam paving 9.3 mi. Independence-Caney Rd., Project 121, Sects. A and D, 18 ft. $300,000. H. K. Hibbard, co. engr.

Neb., Omaha—City takes bids between Dec. 1 and Jan. 1, constructing 18th and 19th Sts. from M to I Sts.; 20th St. from Missouri Ave. to G St.; 21st St. from G to J Sts., 22nd St. from J to N Sts.; 23rd St. from J to A Sts.; 26th and 27th Sts. from N to L Sts.; 33rd and 34th Sts. from Martha to Center Sts.; Castelar St. from 13th to 15th Sts.; F St. from 21st to 27th Sts.; Francis St. from 32nd Ave. to 34th St.; G St. from 19th to 25th Sts.; H St. from 21st to 24th Sts.; I St. from 18th to 25th Sts.; J St. from 18th to 22nd Sts.; M St. from 27th St. to Union Pacific right of way; Park Ave. from Farnam St. to Dewey Ave.; Poppleton Ave. from 28th St. to 29th Ave.; Railroad Ave. north to south line of Blk. 8 south side; Spencer St. from 16th to 24th Sts. $250,000. H. Beal, city engr.

Missouri—State Hy. Dept., Jefferson City, plans 3.953 mi. road from Pleasant Hill to Strasburg, 24 ft., State Aid Project 20.174, Cass Co., 18,968 cu.yd. earth excav., 1,587 cu.yd. borrow, 255.8 cu.yd. concrete masonry, etc.; 3.532 mi. road north, south, east and west of Nodaway, 24 ft., State Aid Project 20.209, Nodaway Co., 17,462 cu.yd. earth excav., 1,657 cu.yd. borrow, 133.4 cu.yd. concrete masonry, etc.; 3.087 mi. road north and south from Neosho, 24 ft., State Aid Project 20.192, Newton Co., 9,985 cu.yd. earth excav., 4,900 cu.yd. borrow, 117.1 cu.yd. concrete masonry etc.; 7.119 mi. road north, south, east and west, 24 ft., State Aid Project 20.127, Boone Co., 38,786 cu.yd. earth and 583 cu.yd. rock excav., 4,972 cu.yd. borrow, 190 cu.yd. concrete masonry, etc.; 4.127 mi. road from Lowery to Osceola, 24 ft., State Aid Project 20.176, St. Clair Co., 11,075 cu.yd. earth and 1,370 cu.yd. rock excav., 989 cu.yd. borrow, 32.3 cu.yd. concrete masonry, etc.; 4.452 mi. road east, west, north and south, 24 ft., State Aid Project 20.186, Andrew Co., 32,241 cu. yd. earth excav., 2,864 cu.yd. borrow, 60.5 cu.yd. concrete masonry, etc.; 3.178 mi. road from St. Charles to West Alton, State Aid Project 20.220, St. Charles Co., 16,784 lin. ft. grading, 22,513 sq. yd. specification C gravel pavement, 12 ft.; 6.046 mi. road north and south of Stoddard, Federal Aid Project 197 A, Stoddard Co., 29,776 cu.yd. earth excav., 16,200 cu.yd. borrow, 203.7 cu.yd. concrete masonry, 43,197 sq. yd. specification C gravel pavement, 12 ft., etc.; 3.386 mi. road from Potosi to Steelville, 24 ft., Federal Aid Project 160 A, Washington Co., 26,578 cu.yd. earth and 2,282 cu.yd. rock excav., 1,972 cu.yd. borrow, 257.5 cu.yd. concrete masonry, etc. B. H. Piepmeier, state highway engr.

Mo., Maplewood — Plans constructing 3,100 ft. Greenwood Blvd. from Big Bend Rd. to Canterbury, 30 ft., 6,192 lin.ft. integral concrete curb, 5,000 cu.yd. earth excav., 11,000 sq.yd. 8 in. rein.-con. $40,000. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, engr.

Mo., St. Louis—Plans resurfacing 5,202 ft. Clayton St. from Vandeventer St. to Kingshighway, 36 ft., 22,560 sq.yd. asphalt or bitulithic, etc. $57,200. W. W. Horner, 300 City Hall, engr.

Tex., Bay City—Nov. 25, to vote on $2,000,000 bond issue for highway improvements and road construction in Matagorda Co., which if voted, will take up all district bond issues that may have been voted. J. C. Carrington, co. engr.

Tex., Beaumont — Submitted $350,000 bond issue to Attorney Generals Dept., Austin, for approval, extensive street improvements. A. Fulweiler, city engr.

Tex., Dallas — Making plans widening, paving and extending St. Paul St. from Commerce to Marilla Sts., 50 ft. $308,000. G. Fairtrace, city engr. E. A. Wood, city plan engr.

Tex., Dallas—Dallas Co. having plans prepared and takes bids about December improving 12.6 mi. Richardson Rd., State Highway 6, 18-20 ft., $500,000; takes bids about January grading and bituminous surfacing 5 mi. Bonnie View Rd., 18 ft., $75,000, 13 mi. Beckley Rd., 18 ft., $150,000; 4 mi. West Dallas-West Moreland Rd., 18 ft., $60,000, Nagle-Witt-Rollins, Courthouse, engrs.

Tex., Houston—Harris Co. plans to vote on $890,000 bond issue for grading and concrete surfacing 17.8 mi. La Porte Rd. from Galveston Pike to La Porte, 18 ft., incl. bridges over Simms and Vina Bayou; $540,000 bond issue for 12 mi. road between Ureka and Cypress, 18 ft. Howe & Wise, 211 First Natl. Bank Bldg., engrs.

Tex., Palestine—Nov. 21, to vote on $1,500,000 bond isue for 2 main trunk highways, north, south, east and west through Anderson Co. C. R. Stewart, co. judge.

Tex., Paris—Lamar Co. making plans gravel surfacing 9.9 mi. State Highway 19 north of here, 12 ft. $63,500. A. J. Goode, co. engr.

Tex., Terrell—Nov. 14, to vote on $35,000 bond issue for highway improvements in Terrell Rd. Dist., in Kaufman Co., incl. State Highway 15. L. M. Ferlet, Terrell, engr.

Calif., Fresno—Supervs. Fresno Co. rejected bids improving 2.14 mi. Mountain Rd., 3 mi. northeast of Auberry. Noted Oct. 26.

Calif., Oakland—Had plans prepared grading and paving 13th St. between East 16th and 38th Sts., 172,013 sq. ft. grading, 163,055 sq. ft. asphaltic concrete pavement, 1,082 lin. ft. concrete curb, steel guard and 6,214 lin. ft. without guard, etc. W. W. Harmon, city engr.

Ontario—See "Railways."

Ont., Ancaster—Plans concrete pavement on Bway. $35,000. J. Moffatt, chn. com.

Ont., Hamilton—Having plans prepared asphalt pavement on Park Row from Main St. to pipe line. $42,000. E. R. Gray, city engr.

Ont., Port Dover—Having plans prepared concrete pavements on Main St. $50,000. Prices wanted on all materials. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

N. Y., New York—Nov. 10, by J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving 27th St. from 1st to 3rd Aves., 30th St. from 2nd to 4th Aves., both sheet asphalt on concrete, Mulberry St. at intersection with Prince St. and Mott St. at intersections with Grand, Broome, Spring and Prince Sts., both granite block on concrete; grading Chittenden Ave. from Northern Ave. to point about 190 ft. westerly therefrom and the easterly 20 ft. from this point to point 87 ft. south of West 187th St., etc.; grading, curbing and flagging Pinehurst Ave. from West 183rd to West 181st St. also sewer in Pinehurst Ave. between West 181st to West 183rd Sts.

N. J., Bernardsville—Nov. 17, by Bernard Twp. Com. at office of F. P. Bowman, clk., constructing Sect. 1 Claremont-Post-Kunhardt (Mine Mt.) Rd. F. S. Tainter, twp. engr.; adv. this issue.

N. J., Newton—Nov. 21, by Sussex Co. grading Fredon Stillwater Rd. in Fredon Twp. H. Snook, co. engr.; adv. this issue.

Pa., Ebensburg — Nov. 6, by Supervs. Jackson Twp., c/o H. T. Jones, controller Cambria Co., paving 5,800 ft. Route 52, Jackson Twp. Highway, vitr. brick blocks on combination concrete base and curb, or 2 course rein.-con. $40,000. A. B. Curry, Trust Bldg., Johnstown, engr.

West Virginia — Nov. 14, by State Rd. Comn., Charleston, constructing Projects 3151 and 3152, Boone Co.; Projects 123 and 3133, Raleigh Co.; Project 3051, Pocahontas Co.; Project 3047, Nicholas Co.; Project 3054, Summers Co.; Project 3170, Clay Co.; Projects 3057 and 3138, Mason Co.; Project 3060 A, Mercer Co.; Project 3061, Wayne Co.; Project 3062, Wyoming Co.; Project 3076 B, Calhoun Co.; Project 3067, Wirt Co.; Project 3021 B, Webster Co.; Project 3111, Gilmer Co.; Project 3154, Upshur Co.; Project 3149, Grant Co.; Project 3012, Hampshire Co.; Project 3107, Mineral Co.; Project 3028, Berkeley Co. E. B. Carskadon, secy.; adv. this issue.

N. C., Washington—Nov. 27, by Beaufort Co. Rd. Comn., paving 6.8 mi. Chocowinity-Aurora Rd., asphalt or concrete. F. C. Kugler, chn.; adv. this issue.

Streets and Roads (Continued)

N. C., Wilmington — Nov. 23, by R. C. Cantwell, Comrs. Pub. Wks., 75,000 sq.yd. hard surfacing. Carolina Eng. Co., 412 Southern Bldg., engrs.; adv. this issue.

S. C., Greenville—Nov. 16, by Greenville Co. Hy. Comn., topsoiling 15 mi. Jones Gap Rd. between Cleveland and North Carolina line. $155,000.

S. C., St. George—Nov. 9, by Dorchester Co. Hy. Comn., constructing 4 mi. State Route 27, between Dorange and Reevesville, 39,000 cu.yd excav., 9,800 cu.yd. sand clay surfacing, also bridge work consisting of five 22 ft. bents, 150 cu.yd. concrete and 29,000 lb. reinforcing.

Florida—Nov. 14, by State Hy. Dept., Tallahassee, constructing 11.6 mi. Rd. 1 between Lake City and Wellborn, Columbia and Suwannee Counties, alternate bids on 2½ in. penetration macadam on 6 in. rock base, 6-8-6 in. plain concrete, 2 in. bituminous concrete (topeka type), with no binder course on 6 in. rock, 1½ in. sheet asphalt with 1 in. binder course on 6 in. rock. Former bids rejected. W. F. Cocke, state highway engr. Noted Oct. 26.

Louisiana—Nov. 14, by State Hy. Comn., Redmond Bldg., Baton Rouge, surfacing 4.03 mi. Project 372, Crowley-Kaplan Highway, Arcadia Parish, incl. concrete culverts and timber bridges, grading and gravel surfacing 16.1 mi. Project 371, Winnsboro-Vidalia Highway, Franklin Parish. J. M. Fourmy, state engr.

Kentucky—Nov. 9, by State Hy. Comn., Frankfort, shaping and surfacing to width of 16 ft., 0.415 mi. Pineville-Middlesboro Rd. from south corporate limits of Pineville, Sta. 21 plus 87 to Wasiota Bridge, Sta. 43 plus 80, State Project 5, Sect. C, Bell Co., with rock asphalt, waterbound macadam or waterbound macadam, surface treated, 960 cu.yd. unclassified, 466 cu.yd. borrow and 156 cu.yd. solid rock excav., 20 cu.yd. Class B concrete, 1,780 sta.yd. overhaul, 131 cu. yd. cement rubble masonry, 312 ton rock asphalt, 3,899 sq.yd. modified Telford base, 390 ton stone, 548 ton crushed limestone for rock asphalt, 1,218 ton for waterbound macadam, 780 gal. bituminous prime coat, 1,300 gal. cold oil or medium tar special, 49 ton stone chips, etc.; shaping to width of 24 ft. on fills and 28 ft. on cuts, 6,363 mi. Virginia State Line-Lynch Rd., from Virginia State line Sta. 0 plus 00 to end of concrete street in Lynch, Sta. 336 plus 47, State Project 56, Sect. A, Harlan Co., 39 acres clearing, 46,830 cu.yd. earth, 46,835 cu.yd. loose rock, 181,771 cu.yd. solid rock and 4,760 cu.yd. borrow excav., 80,538 sta. yd. overhaul, 1,072 cu.yd. cement rubble masonry, 256 cu.yd. concrete, 42,890 lb. reinforcement, alternate bids on 1,062 lin.ft. 18 in. and 272 lin.ft. 24 in. standard vitr. pipe, 1,018 lin.ft. 18 in. and 448 lin.ft. 24 in. D. S. vitr. pipe, 123 cu.yd. 1:3:6 encasing concrete, or 2,080 lin.ft. 18 in. and 720 lin.ft. 24 in. rein.-con. pipe, or 2,080 lin.ft. 18 in. and 720 lin.ft. 24 in. standard c.i. culvert pipe. J. S. Boggs, state highway engr.

O., Canton—Nov. 10, by G. L. Sickafoose, engr. Stark Co., Court House, paving 1½ mi. Uniontown-Hartville Rd. west of Hartville, 18 ft., brick on concrete; ½ mi. road east of Waynesburg to county line, 18 ft., brick.

O., Columbus—Nov. 7, grading, curbing and paving 1,174 ft. roadway of Chestnut St. from High to 4th Sts., asphalt-granite circles, $26,090, steel circles, $25,990; stone-granite circles, $33,438, steel circles, $33,335. R. H. Simpson, 262 South High St., engr. Noted Sept. 21.

Michigan—Nov. 9, by State Hy. Dept., Lansing, grading and surfacing 4.724 mi. State Trunk Line Rd. 15-12, Sect. A, Menominee Co., 36,418 cu.yd. excav., 44,192 sq.yd. gravel or stone gravel, 16 ft. F. F. Rogers, state highway comr.

In., Sumner—Nov. 14, for 58,000 sq. yd. pavement, various types, and 34,000 ft. curb and gutter. Currie Eng. Co., Webster City, engrs.; adv. this issue.

Tex., Ft. Worth—Nov. 7, by City Com., paving West 21st St. from Clinton to Pearl Sts., West 6th St. from Burnett to Throckmorton Sts., 30 ft., 12,100 sq.yd. Unvalde rock asphalt, 3 in. vertical fiber brick or bitulithic, 6,600 ft. curb and gutter. $45,000. D. L. Lewis, city engr.

Tex., Ft. Worth—Nov. 9, by Comrs. Court Tarrant Co., grading and gravel surfacing 5.75 mi. Randol Mill Rd. Project 21, 18 ft. $41,670. R. V. Glenn, Ft. Worth, co. engr.

Tex., Pearsall—Nov. 10, by J. C. Prangelin, judge Frio Co., grading, gravel surfacing and bituminous topping 17.2 mi. Meridian Highway from here to Meridian Co. line, 1,480 cu.yd. concrete, 102,736 cu.yd. earth and 37,000 cu.yd. rock excav., 180,558 sq.yd. 1½ in. bituminous macadam, $283,279; 17.81 mi. Meridian Highway between here and La Salle Co. line, 1,188 cu.yd. concrete, 96,060 cu.yd. roadway, 183,494 sq.yd. 1½ in. bituminous macadam, 5,000 sq.yd. concrete pavement, 74,192 lb. reinforcing, $316,415. J. D. Metcalfe, co. engr. Noted Oct. 5.

Colorado—Nov. 10, by State H. Dept., Denver, concrete paving 4.185 mi. Colorado Springs-Denver Rd. beginning 700 ft. north of Colorado Springs and extending north toward Breed, 18 ft., Federal Aid Project 116-A, El Paso Co., 1 acre clearing, 12,300 cu.yd. borrow fill, 98,000 cu.yd. earth and 16,400 cu.yd. rock excav., 42,000 sq.yd. overhaul, 3,100 cu.yd. gravel shoulders, 837 cu.yd. Class A concrete, 43,776 sq.yd. one course plain cement concrete pavement, 91,710 lb. reinforcing, etc., also bridge over Cottonwood Creek, Sta. 214 plus 60 to 216 plus 72,916 cu.yd. Class A concrete 3,500 lb. structural and 119,400 lb. reinforcing steel, etc. $231,394. L. D. Blauvelt, Denver, state highway engr.

Wash., Spokane—Dec. 22, grading and curbing Gordon Ave. from C to F Sts., $1,800, Belt St. from Montgomery to Dundee Ave., Dundee Ave. from Belt to Hemloch Sts., $1,004; grading Olympic Ave. from Magnolia to Nevada Sts., $2,328; paving Maple St. from 10th to 14th Sts., $8,919; curbing Cleveland Ave. from Washington to Post Sts., $1,887, Mallon Ave. from Cochrane to A Sts., $2,158; curbing and laying sidewalks on Dakota St. from Mission to De Smet Aves., $4,951; grading, curbing and laying sidewalks on Carlisle Ave. from Morton to Hamilton Sts., $3,660; sidewalks on Illinois Ave. from North Center to Morton Sts., $969. A. Butler, City Hall, engr.

Quebec—Dec. 30, by J. L. Boulanger, deputy minister of highways, Quebec, gravelling 10½ mi. Beauce Junction-Sherbrooke Highway, in Westbury Twp., Ascot Corner, and Ascot Twp. M. Nectkar, ch. engr.

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids Oct. 24, improving (1) 3.57 mi. Highway 8133 Morehouseville-Piseco, Part 3, Hamilton Co., engrs. est. $134,118 (2) 3.71 mi. Highway 8138 Cronomer Valley-Plattekill, Orange Co., engrs. est. $152,864 (3) 2.67 mi. Highway 8137 Lape Corners-Clifton Park, Saratoga Co., engrs. est. $91,930 (4) 2.41 mi. Highway 1632 Cold Spring-Huntington-Ft. Salonga, Part 2, Suffolk Co., engrs. est. $96,816 (5) 0.09 mi. Highway 8066-A, Port Jefferson-Riverhead, Part 3, Suffolk Co., engrs. est. $11,449, reconstructing (6) 2.27 mi. Repair Contr. 3033 Highway 275, Broome Co., engrs. est. $67,433 (7) 3 mi. Repair Contr. 3029 Highway 5207, Chemung Co., engrs. est. $112,101 (8) 3.19 mi. Repair Contr. 3031 Highway 258, Clinton Co., engrs. est. $56,596 (9) 2 mi. Repair Contr. 3032 Highways 315 and 678, Otsego Co., engrs. est. $74,419 (10) 2.5 mi. Repair Contr. 3021 Highway 742, Steuben Co., engrs. est. $80,942 (11) 2.36 mi. Repair Contr. 3035 Highway 5008, Suffolk Co., engrs. est. $76,704 (12) 2.67 mi. Repair Contr. 3034 Highway 5231, Westchester Co., engrs. est. $124,701, from C. J. Burgess Co., Marcy, (1) $130,488. Bricon Constr. Co., Inc., Buffalo (street address not available), (1) $130,518 (8) $50,327. C. D. Murray, 701 Westcott St., Syracuse, (1) $130,868. H. Hull, Highland Mills, (2) $138,792. S. B. Wagenen, Inc., Rondout, (2) $144,583. J. L. Hayes Constr. Co., Inc., 53 South Bway., Yonkers, (2) $148,238. Malloy Constr. Co., 434 State St., Schenectady, (3) $82,945. A. D. Pike Co., North Adams, Mass., (3) $84,629. Collins Bros., Mechanicsville, (3) $87,242. R. W. S. Corp., 30 Church St., New York City, (4) $85,668 (11) $71,457. E. Gould, Brooklyn (street address not available), (4) $90,222 (11) $68,761. Fleming & Sheppard Co., Inc., New York City (street address not available), (4) $94,910. M. J. Rush, New York City (street address not available), (5) $10,302. Awixa Corp., Islip, (5) $11,449. A. Yesu & Son, 27 Carroll St., Binghamton, (6) $65,648. M. H. Ripton, Rochester (street address not available), (6) $66,897, (7) $109,900, (10) $80,047. Dale Eng. Co., Mann Bldg., Utica, (6) $66,933. Wieberg Bros., Buffalo (street address not available), (7) $98,738, (10) $72,192. Horn & Devling, Main St., Galeton, Pa., (7) $107,875, (10) $79,383. Hogeboom & Campfield, Inc., Kingston, (8) $49,204. United Building & Constr. Co., Lodi, N. J., (8) $53,859. Morrell Vrooman, Inc., Gloversville, (9) $73,294. C. Heling Lindenhurst, (11) $72,323. Frederick Roeber Co., Inc., 507 5th Ave., New York City, (12) $118,296. J. J. Bellote & Sons, T[illegible] street address not available), (12) $[illegible] Spadaro Constr. Co., Inc., 827 [illegible] St., New York City, (12) $119,[illegible] Noted Oct. 5.

N. Y., Brooklyn—E. Riegelmann, borough pres., Boro Hall, opened bids Oct. 29, for paving with asphalt (1) Court St., (2) Franklin Ave., (3) Rockaway Ave. from Brooklyn Alcatraz Co., 407 Hamilton Ave., (1) $10,531, (2) $6,020; Boro Asphalt Co., 1301 Metropolitan Ave., (1) $13,508 (2) $6,682 (3) $20,689; Cranford Co., 52 9th St., (1) $11,350 (2) $6,852 (3) $20,450; Sicilian Asphalt Paving Co., 41 Park Row, New York, (3) $19,182. Noted Oct. 19.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Oct. 27, grading and laying sidewalks in (1) Fresh Pond Rd. (2) Woodside Ave., from E. Block, Woodhaven, (1) $12,440 (2) $7,620; Galecor Contg. Co., (1) $15,015; Peace Bros., Inc., 57 North Lawrence St., Flushing, (2) $9,650. Noted Oct. 19.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Tremont and 3rd Aves., opened bids Oct. 24, paving (1) Park Ave., sheet asphalt, grading, setting curb and laying sidewalks, etc., on (2) Norman Ave. (3) Duryea Ave. (4) Pelham Parkway, from C. D. Beckwith, 2875 Bway., (1) $13,096; Interboro Constr. Co., 233 Bway., (1) $13,679; Asphalt Constr. Co., 208 Bway., (1) $13,872; M. DelBalso, 660 East 221st St., (2) $8,283; Burnside Contg. Co., 270 Burnside Ave., (2) $9,774; N. Mascelli, (2) $9,987; C. DeBlasio, 339 7th Ave., Mt. Vernon, (3) $3,298; Spadaro & Turriamo, 3185 East Tremont Ave., (3) $3,300 (4) $33,937; J. V. Trousi, (3) $3,380; Ames Building Material Co., 3437 Kingsbridge Rd., (4) $37,745; Kearns Contg. Co., 2306 Creston Ave., (4) $44,078. Noted Oct. 19.

Md., Baltimore — Grading, curbing and surfacing with cement concrete 6 in. thick, 1-2-4 mix, Weaver, Arabia, Batavia, Cottage Aves., Lanvale, Glyndon and Weber Sts., Oksley, Tyndale, Harcourt and Canterbury Rds., from Leonard & Apicella, 224 Albermarle St., $34,521, Arundel Constr. Co., Knickerbocker Bldg., $36,352, G. Long Constr. Co., 13th St. and 1st Ave., $37,690; Kenoak Ave. and Hilltop Rd., from Amer. Paving & Contg. Co., Jenkins Lane, $43,650, Baltimore Asphalt Block & Tile Co., Monroe and Lorman Sts., $44,187, P. Flanigan & Sons, Harford Rd. and 25th St., $44,378.

Fla., Homestead — Improving various streets, (a) 44,500 sq.yd. one course broken stone (b) 17,600 sq.yd. two course broken stone (c) 20,000 sq.yd. first course for penetration (d) 1,500 cu.yd. grading (e) 20,000 sq.yd. one course for penetration, from T. B. McGahey, Miami, (a) $0.43 (b) $0.82 (c) $0.48 (d) $1.15, total $45,068; J. B. Nash, Homestead, (a) $0.51 (b) $0.88 total $47,583; H. L. Clark & Sons, Lemon City, (a) $0.50 (b) $0.88 (d) $1.25 (e) $0.50, total $49,613.

Louisiana—State Hy. Dept., Redmond Bldg., Baton Rouge, opened bids Oct. 17, surfacing 16.07 mi. Federal Aid Project 144, Monroe-Ruston Highway, Sect. B, from Meyer-Greenwall Constr. Co., Meridian, Miss., $122,007, W. H. Harris, Monroe, $128,700.

North Carolina—State Hy. Dept., Raleigh, grading and concrete paving (1) 4.23 mi. Project 101, 16 ft., Beaufort Co., (2) 7.52 mi. Project 901, 18 ft., Buncombe Co., clearing and grading (3) 14.07 mi. Project 133, 30 ft., Gates and Pasquotank Counties, clearing, grading and topsoiling, (4) 10.88 mi. Project 152, 18 ft., Hyde Co., grading, concrete or asphaltic paving and rein.-con. bridges and culverts on (5) 2 mi. Project 105 A, 16 ft., Beaufort Co., grading, concrete paving and rein.-con. bridges and culverts on (6) 5.04 mi. Project 105 B, 16 ft., Beaufort Co., grading and 2 in. asphaltic paving on 5 in. concrete (7) 14.53 mi. Project 220, Duplin Co., (8) 14.22 mi. Project 282, Wayne Co., from Public Service Production Co., Terminal Bldg., Newark, N. J., (1) $129,906 (5) $74,888 (6) $149,365 (7) $359,000 (8) $357,017; Groves Co. & Shepard, Inc., Greenville, (1) $131,965 (5) $78,614 (6) $153,394; Hadlow & McDonald, Jacksonville, Fla., (street address not available) (1) $159,245 (6) $187,142; A. J. Wardrep, Holston Bank Bldg., Knoxville, Tenn., (2) $292,527; J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., (2) $293,235; Allport Constr. Co., Asheville, (2) $295,609; C. W. Lacy, Wilmington, (3) $91,013 (4) $92,042; O. A. Mann & Co., La Grange, Ga., (4) $68,774; J. L. McGehee Contr. Co., Tarboro, (5) $71,672; Union Paving Co., 30th and Locust Sts., Phila., Pa., (7) $354,612 (8) $354,300; West Constr. Co., Kinston, (7) $369,400 (8) $367,966.

Streets and Roads (Continued)

O., Cleveland—Cuyahoga Co. opened bids Oct. 21, paving Brainard Rd., 22,400 lin.ft. 4 in. vitr. tile pipe gutter, 10,400 cu.yd. earth excav., 21,390 sq.yd. waterbound macadam, engrs. est. $77,513, from Lane & Freeman, Newman-Stern Bldg., $67,244, Scott Bros., Ada, $70,195; River Constr. Co., Schofield Bldg., $70,359; Clague Rd., 13,400 lin.ft. 4 in. vitr. tile pipe gutter, 5,100 cu.yd. earth excav., 12,800 sq.yd. waterbound macadam, engrs. est. $45,065, from Ohio Contg. Co., Elyria, $39,277, Lake Erie Paving Co., Marshall Bldg., $40,226; Bunts Rd., 8,100 lin.ft. 4 in. vitr. tile pipe gutter, 6,500 cu. yd. earth excav., 12,600 sq.yd. asphalt, engrs. est. $72,627, from Cleveland Trinidad Paving Co., The Arcade, $64,295, Highway Constr. Co., Elyria, $64,375.

O., Cleveland—Cuyahoga Co. paving Stearns Rd. 1, 26,465 lin.ft. 4 in. vitr. tile gutter, 10,700 cu.yd. earth excav., 26,405 sq.yd. waterbound macadam penetration, from Ohio Contg. Co., Elyria, $80,425; Lane & Freeman, Newman-Stern Bldg., $85,540. Engrs. est. $94,058.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, opened bids Oct. 24, improving 5,400 ft. Watson Rd. from Southwest to Pernod Aves., from Webb Kunze Constr. Co., 5927 Fyler Ave., $137,745, Fruin Colnon Constr. Co., Merchants Laclede Bldg., $180,342, engrs. est. $121,800; reconstructing Easton Ave. from Marcus Ave. to Kingshighway, (1) removing 9,265 sq.yd. granite block and bed course, (2) recutting 4,630 sq.yd. granite block bedding grout, (3) recutting 4,630 sq.yd. granite block bedding course asphalt filler, (4) 1,125 cu.yd. concrete, etc., from F. A. Stiers Constr. Co., 4500 Enright Ave., (1) $0.50 per sq.yd., (2) $3.20, (3) $3.45, (4) $8.50, total $38,991, S. Krainka Constr. Co., Security Bldg., (1) $0.40, (2) $3.25, (3) $3.40, (4) $9, $39,946, J. E. Perkinson, 237 Carter Ave., (1) $0.50, (2) $3.10, (3) $3.42, (4) $9, $40,228, engrs. est. $33,000. Refund on granite blocks. Noted Oct. 5 and Sept. 28.

South Dakota—State Hy. Comn., Pierre, opened bids grading 4.64 mi. Federal Aid Project 123, Belle Fourche, Butte Co., from E. Parrish, Rapid City, $40,083, C. Cole, Spearfish, $40,802, H. Pickus Constr. Co., 2316 3rd St., Sioux City, Ia., $43,524; bridges on same from E. Wilson, Belle Fourche, $10,750.

Colorado—State Hy. Dept., Denver, concrete paving (a) Topeka pavement, (b) National pavement, (c) cement concrete, 1.003 mi. road extending eastward on Union Pacific Highway from Aurora City limits, Federal Aid Project 225, Adams and Arapahoe Counties, from Miller Douglas & Haines, 100 South York St., Denver, (a) $35,791, (b) $34,790; Colorado Bridge & Constr. Co., Gas & Electric Bldg., Denver, (a) $37,850, (b) $38,350, (c) $30,849; W. F. Pigg & Son, Engineers Bldg., Denver, (c) $30,648, engrs. est. $36,000; gravel surfacing 5.302 mi. road between Grand Valley and De Beque, Federal Aid Project 210 A, Garfield Co., 18 ft., from F. L. Hoffman, 527 Mining Exch. Bldg., Denver, $32,209; Hinman Bros., Kremmling, $34,536; H. Shore, Steamboat Springs, $57,126, engrs. est. $67,921.

Calif., Fresno—Grading and paving Ferger Ave. between Olive and Beltmont Aves., (1) 100,775 sq. ft. grading (2) 83,670 sq. ft. asphalt pavement (3) 9,194 sq. ft. concrete gutter (4) 3,785 sq. ft. concrete curb (5) 17,923 ft. cement walks, from Thompson Bros., Divisadero and G Sts., (1) $0.053 (2) $0.219 (3) $0.33 (4) $0.65 (5) $0.225; California Road and Street Impvt. Co., Bank of Italy Bldg., (1) $0.059 (2) $0.219 (3) $0.35 (4) $0.62 (5) $0.23; Federal Constr. Co., Call Bldg., San Francisco (1) $0.068 (2) $0.229 (3) $0.30 (4) $0.59 (5) $0.23. Noted Sept. 28.

Calif., San Diego—City Council opened bids Oct. 23, improving Fort Stockton Dr., Montecito, Palmetto and Plumosa Ways., Stephens, Randolph and Jackdaw Sts., (a) 79,523 sq.ft. 1½ in. asphaltic concrete on 4 in. cement concrete, (b) 121,558 sq.ft. 1½ in. asphaltic concrete on 2½ in. asphaltic concrete, (c) 6,636 sq.ft. cement concrete sidewalk, (d) 1,327 lin.ft. 8 in. cement concrete curb, (e) 929 lin.ft. 6 in. cement concrete curb, etc., from Fairchild-Gilmore-Wilton Co., 25 14th St., (a) $0.20 (b) $0.16 (c) $0.22 (d) $0.63 (e) $0.62, etc.; G. R. Daley, 4440 Boundary St., (a) $0.209 (b) $0.16 (c) $0.22 (d) $0.65 (e) $0.60, etc.; California Constr. Co., Granger Bldg., (a) $0.22 (b) $0.158 (c) $0.22 (d) $0.70 (e) $0.60, etc. Noted Aug. 10.

CONTRACTS AWARDED

N. Y., New York—Dept. Parks, Municipal Bldg., furnishing and setting curbstones and paving with sheet asphalt roadway of Morningside Dr., to C. D. Beckwith, 2875 Bway., $62,150. Engrs. est. $62,200. Noted Oct. 26.

N. Y., Rochester—Paving 420 ft. Herbert St., asphalt, to J. Frederick & Co., 220 Exch. Pl. Bldg., $6,605; 1,800 ft. Bronson Ave., asphalt, and resurfacing Churchlea Pl., to T. Holohan, 164 Lewis St., $15,405 and $5,034 respectively; 1,375 ft. of asphalt paving, also 500 ft. Violetta St., asphalt, to J. Petrossi & Co., 401 Elwood Bldg., $23,877 and $6,418 respectively; 992 ft. Sylvester St., warrenite bitulithic, to Oliver Costich Co., 321 Exch. Pl., $16,289. Noted June 29.

N. Y., Rochester—Paving Alcazar St. and Versailles Rd., bitulithic, to Oliver Costich Co., Rochester (street address not available) $8,936 and $41,865 respectively; grading, laying sidewalks and sewers in Maxwell St., to W. Bailey Co., Rochester (street address not available), $8,209; sanitary sewer in Lake Ave., to L. R. Brotsch, Rochester (street address not available), $4,645. Noted Aug. 31.

ROAD WORK—VERMONT

Bids were opened by State Highway Comn., Montpelier, Sept. 22, for constructing 3.24 mi. road in Barton Twp., Federal Aid Project No. 33, (A) D. W. Overocker, Brattleboro (awarded contract); (B) P. C. Ricci, Rutland; (C) Streeter & Sons Co., 1 Glenwood St., Worcester, Mass. The unit bids were as follows:

	A	B	C
19,376 cu.yd. earth excavation including borrow	$0.95	$1.25	$1.40
200 cu.yd. rock excavation	2.00	3.00	5.00
4,897 cu.yd. sub-base of field or quarry stone	2.15	2.50	3.50
200 cu.yd. telford base course	3.50	3.00	3.50
7,040 cu.yd. gravel surface course	2.20	3.25	3.00
7,040 cu.yd. gravel surface course (if crushed)	3.60	4.00	3.60
217 cu.yd. concrete class A (1-2-4)	20.00	20.00	27.50
333 cu.yd. concrete class B (1-2½-5)	16.00	15.00	25.00
6,871 lb. reinforcing steel	.05	.07	.10
5,408 lin.ft. wooden guard rail	.45	.40	.70
276 lin.ft. 12-in. corrugated pipe culvert grade "A"	1.40	1.20	1.75
148 lin.ft. 14-in. corrugated pipe culvert grade "A"	1.60	1.40	2.25
142 lin.ft. 16-in. corrugated pipe culvert grade "A"	1.75	2.00	2.50
142 lin.ft. 12-in. corrugated pipe culvert grade "B"	1.40	1.10	1.75
142 lin.ft. 14-in. corrugated pipe culvert grade "B"	1.60	1.30	2.25
142 lin.ft. 16-in. corrugated pipe culvert grade "B"	1.75	1.75	2.50
142 lin.ft. relaying pipe culvert	1.00	.40	1.00
1,105 lin.ft. standard underdrain	.50	.75	.50
Drop inlets grates	10.00	75.00	25.00
Extended totals	$59,403	$74,248	$87,600

ROAD WORK—WASHINGTON

Following are lowest three bids opened Oct. 3, by State Highway Comn., Olympia, for constructing 20.51 mi. Inland Empire Highway, Kittitas and Yakima Counties, (A) Grant-Smith Co., Henry Bldg., Seattle, (awarded contract); Rajotte-Winters, Inc., Spokane; Pacific Coast Paving Co., Tacoma; 12.21 mi. North Bank Highway, Klickitat Co., (A) K. L. Coulter & Co., Ilwaco, (awarded contract); (B) Grant-Smith Co.; (C) G. H. Atkinson, Portland. The unit bids were as follows:

	A	B	C
20.05 acres clearing	$150.00	$100.00	$125.00
6.40 acres grubbing	200.00	100.00	125.00
23,330 cu.yd. excavation, including haul of 400 ft.	1.20	1.15	1.20
89,770 cu.yd. common excavation, including haul of 400 ft.	.60	.45	.20
135,880 cu.yd. solid rock excavation, including haul of 400 ft.	1.10	1.20	1.40
1,060 cu.yd. structure excavation, including haul of 400 ft.	2.00	1.50	2.60
210 cu.yd. ditch excavation, including haul of 400 ft.	1.00	1.00	2.00
191,380 cu.yd. overhaul on above materials	.05	.04	.03
19,480 cu.yd. gravel surfacing	2.00	1.90	1.50
19,480 cu.yd. crushed rock surfacing (alternate)	2.00	2.10	3.00
851.5 cu.yd. concrete class "B"	25.00	30.00	28.90
52.92 cu.yd. concrete class "C"	24.00	28.00	28.90
55,510 lb. steel reinforcing bars	.08	.06½	.07
Plain concrete pipe, 12 in.	1.50	1.75	3.00
1,332 lin.ft. reinforced-concrete pipe, 18 in.	3.50	3.25	4.00
582 lin.ft. reinforced-concrete pipe, 24 in.	4.00	4.25	6.00
120 lin.ft. reinforced-concrete pipe, 30 in.	5.00	5.25	8.00
715 cu.yd. cement rubble masonry	8.00	10.00	12.00
Hand placed riprap	6.00	3.00	6.00
2,755 lin.ft. guard rail No. 4	1.00	1.00	1.50
115 lin.ft. tunnel, 24x20 in.	40.00	100.00	80.00
Extended totals gravel surfacing	$334,136	$338,867	$339,342
Extended totals crushed rock surfacing	$334,136	$342,763	$368,562

	A	B	C
303,090 cu.yd. common excavation	$0.43	$0.47	$0.45
332,610 cu.yd. solid rock excavation, including haul of 400 ft.	.93	.85	1.12
1,650 cu.yd. structure excavation, including haul of 400 ft.	1.50	2.00	2.00
1,600 cu.yd. ditch excavation, including haul of 400 ft.	1.75	1.50	2.00
1,041,850 cu.yd. overhaul on above materials	.02	.05	.02
647.37 cu.yd. concrete class "B"	30.00	33.00	27.00
25.22 cu.yd. concrete class "C"	28.00	33.00	27.00
66,380 lb. steel reinforcing bars	.06½	.07	.06
286 lin.ft. plain concrete pipe, 12 in.	1.75	3.50	2.00
1,126 lin.ft. reinforced-concrete pipe, 18 in.	3.00	4.00	3.00
1,378 lin.ft. reinforced-concrete pipe, 24 in.	4.25	5.00	4.00
116 lin.ft. reinforced-concrete pipe, 30 in.	5.50	8.00	6.00
236 lin.ft. reinforced-concrete pipe, 36 in.	7.50	10.00	8.00
100 lin.ft. vitrified clay pipe, 8 in.	.75	2.00	1.50
36 lin.ft. vitrified clay pipe, 12 in.	1.50	3.00	2.00
835 cu.yd. cement rubble masonry	10.00	12.00	10.00
36 cu.yd. hand placed riprap	3.00	8.00	5.00
1,000 cu.yd. loose riprap	1.50	2.50	2.00
825 lin.ft. guard rail No. 4	1.00	1.50	1.00
*1,170 cu.yd. structure excavation	1.50	2.50	2.00
*546 cu.yd. concrete class "A"	32.00	33.00	30.00
*595 cu.yd. concrete class "B"	30.00	33.00	28.00
*123,500 lb. steel reinforcing bars	.06½	.07	.06
Extended totals	$556,739	$589,032	$624,779

*Concrete bridges.

N. J., Perth Amboy—Bd. Aldermen, extension to Route 4, Sect. 19, Amboy Ave., to Graham & McKeon, 319 Oak St., $158,217. Noted Oct. 5.

Pennsylvania—State Hy. Dept., Harrisburg, 4,108 ft. Application 1981, Venango Co., to F. S. Wilson, Kittanning, $44,435; 4,786 ft. Route 165, Northampton Co., to Neumeyer Bros., 1416 East 4th St., Bethlehem, $62,315, 2,029 ft. Application 2107, Mercer Co., to Jamieson & Narlee, Fredonia, $18,098; 11,237 ft. Application 1664, Berks Co., to Juniata Co., 410 Empire Bldg., Phila., $75,995.

Pa., Pittsburgh — Grading, paving and curbing Edgewater Ave., Bryant, South Murtland and Blessing Sts., also Webster Ave., to Booth & Flinn, Ltd., Forbes St., $34,298 and $33,968 respectively; Ira Way, Kamin and Kincaid Sts., to T. A. Cronin Co., Carson St., $21,002.

Virginia—State Hy. Dept., Richmond, constructing 5½ mi. Project 168, Route 6,

Streets and Roads (Continued)

16 ft., bituminous macadam, to Pardoe & Gillespie Co., Fairfax, $134,877.

West Virginia—State Rd. Com., Charleston, gravel surfacing 1.9 mi. Grape Island-Raven Rock Rd., Project 58, Pleasants Co., 16 ft., 4,000 cu.yd. excav., 3,000-7,000 cu.yd. bank run gravel on river bank, 3,000-7,000 cu.yd. bank run gravel surfacing, 4,000-7,000 cu.yd. bank run gravel in bins, 4,000-7,000 cu.yd. bank run gravel surfacing, to Smith & Quynn, Parkersburg, $21,900; grading and paving with rock asphalt 2.7 mi. Welch-Coalwood Rd., Project 3153, McDowell Co., 16 ft., 14,000 lin.ft. clearing right of way, 54,000 cu.yd. excav., 8,000 lb. steel, 1,300 cu.yd. cement rubble masonry, 420 cu.yd. concrete, 27,700 sq.yd. rock asphalt surface, 5,720 cu.yd. broken stone base course, 600 cu.yd. stone subbase course, 2,000 sq.yd. cement concrete gutter, 1,520 lin.ft. 18 in. vitr. clay pipe, etc., to Rogers & Shumway, Worthington, $134,965. Noted Oct. 12.

Louisiana—State Hy. Dept., Redmond Bldg., Baton Rouge, gravel surfacing, Federal Aid Project 125, to Hogsett & Co., Church Point, 7.1 mi. Sect. A, $39,067, 11.35 mi. Sect. B, $51,267.

Tennessee—State Hy. Dept., Nashville, surfacing 10.7 mi. road from Carthage to Smith Co. line, Project 68, Smith Co., 16 ft., 8 in. limestone, hand placed base course, to Phillips, Simpson & McGugin, Stahlman Bldg., Nashville, $161,841; grading and surfacing with 7 in. gravel, Federal Aid Project 71, Lake and Obion Counties, 16 ft., to J. C. Gray & Co., Martin, $80,791. Noted Oct. 12.

Miss., Yazoo City—Paving 3.92 mi. road, 1:2:3 mix concrete, 16 ft., incl., 172 ft. and two 99 ft. rein.-con. bridges, to Lebby & Williams Eng. Service, Inc., Yazoo City, $140,742.

Kentucky—State Hy. Dept., Frankfort, paving 12.775 mi. Barbourville-Pineville Rd., 14 ft., Federal Aid Project 39, Sect. A, rock asphalt on concrete, Knox and Kell Counties, to Metzel-O'Hearn & Lewen, Covington, $338,398; 5.075 mi. Dixie Highway, 18 ft., Federal Aid Project 82, State Project 5, Sect. A, rein.-con., using vitr. pipe, Boone Co., to Billiter & Oliver Bros., Covington, $158,462; 13.92 mi. Camp Knox-Elizabethtown Rd., 16 ft., Federal Aid Project 79, State Project 11, Sect. A, bituminous macadam penetration, using concrete pipe, Hardin Co., to R. B. Tyler, 114 South 4th St., Louisville, $295,929; grading 9.717 mi. road from Morehead to Grayson, 24 to 28 ft., Federal Aid Project 68, State Project 47, Sect. D, using cement rubble masonry, Carter Co., to Hatfield Constr. Co., Huntington, W. Va., $111,526; 8.103 mi. Stanton-Campton Rd., 24 to 28 ft., Federal Aid Project 71, State Project 4, Sect. A, using concrete pipe, Powell Co., to Codell-Byars, Winchester, $153,787; 10.207 mi. Stanton-Campton Rd., 24 to 28 ft., Federal Aid Project 72, State Project 4, Sect. A, using cement rubble headwalls and concrete pipe, Wolfe Co., to Vermillion Contg. Co., Barboursville, $81,686; 2.087 mi. Hazard-Whitesburg Rd., 24 ton 28 ft., Federal Aid Project 81, State Project 4, Sect. A, using concrete pipe, to Perry Co., to Codell-Byars, Winchester, $87,061; 5.422 mi. Greensburg-Hodgenville Rd., 24 to 28 ft., State Project 41, Sect. A, using rein.-con. pipe, Green Co., to Ping Bros., Somerset, $49,683; gravel surfacing 2.891 mi. Cadiz-Hopkinsville Rd., 18 ft., Federal Aid Project 73, State Project 1, Sect. B, using bank gravel, Trigg Co., to Alexander Bros., Cadiz, $36,063.

Michigan—State Hy. Dept., Lansing, grading and surfacing 1.064 mi. State Trunk Line Rd. 22-9, Grand Traverse Co., 4,097 cu.yd. excav., 12,489 sq.yd. concrete, to H. A. Hoxie, Grand Rapids, $16,121, plus state cement, $9,000.

Michigan — State Hy. Dept., Lansing, grading and surfacing 1.386 mi. State Trunk Line Rd. 35-9, Gladstone Co., to Nebel Bros., Gladstone, $21,894, plus state cement, $10,400.

Michigan — State Hy. Dept., Lansing, grading 8.612 mi. Federal Aid Project 87, Wayne Co., 69,177 cu.yd. excav., to Fonty & Wolcott, Delta, O., $42,684. Noted Oct. 12.

Ia., Elkader—Clayton Co. gravel surfacing 31.86 mi. Elkader-McGregor Rd., 33,465 cu.yd. gravel, 2,390 cu.yd. excav. and 2,318 cu.yd rock ballast, to McKusick Constr. Co., Minneapolis, Minn. (street address not available), $99,098.

Ia., Holstein—Paving and curbing various streets, 106,400 sq.yd. concrete, 48,296 ft. combined curb and gutter, 7,082 ft. 7 in. curb, to Western Asphalt Paving Co., Sioux City, $299,335. Engrs. est. $300,000.

Ia., Maquoketa—Jackson Co., grading 12.3 mi. road from Bellevue southwest, 239,985 cu.yd. clay and loam, 2,700 cu.yd. loose and 24,049 cu.yd. solid rock excav., to E. Sash, 1025 North 17th St., Cedar Rapids, $93,649.

Kan., Mound City—Linn Co. grading 5.735 mi. Jefferson Highway, 29½ ft., to R. S. Morrow, 5006 Burt St., Omaha, Neb., 20,871 cu.yd. earth excav. $0.28, 182,423 cu.yd borrow $0.22, (both include grubbing), 268.1 cu.yd. concrete $19.75 per cu.yd., 17,910 lb. reinforcing $0.06, etc., total $68,130, 3.056 mi. Jefferson Highway, Federal Aid Project 132, 29½ ft., to L. O. Hales, 1230 College St., Topeka, 25,559 cu.yd. excav. earth $0.33, 3,212 cu.yd. rock excav. $1.90, to Campbell Bros., Salina, 224.6 cu.yd. Class A concrete $19.60, 117.7 cu.yd. Class C concrete $15.20, etc., total $27,365.

Kan., Wellington—Sumner Co. grading 8.426 mi. Meridian Highway 35, Sects. D and E, 28 ft., to L. O. Hales, 1230 College St., Topeka, $39,616. Noted Sept. 14.

Tex., Ballinger — Paving 13 blocks in business section, 33,282 sq.yd. 3 in. vitr. brick on 5 in. concrete, 6,152 lin.ft. concrete curbs and gutters, to J. B. Toomey, Ft. Worth. $110,017.

Tex., Bonham — Fannin Co., grading, gravel surfacing, bituminous topping, etc., certain roads in Dist. 4, to F. P. McElwrath, Corsicana, $114,537. Noted Sept. 28.

Tex., Bryan—Brazos Co. paving, curbing, etc., 2.75 mi. various streets, 24-48 ft., 42,000 sq.yd. 6 in. concrete, 23,000 lin.ft. concrete curb, 11,000 lin.ft. concrete gutter, 12,000 cu.yd. earth excav., to Smith Bros., 308 Sumpter Bldg., Dallas, $129,080.

Tex., Dallas — Paving Montclair, Kings Highway and 12th Sts., 30 ft., to Uvalde Paving Co., Insurance Bldg., 16,038.1 sq. yd. Uvalde asphalt on concrete $3.25, 7,748 lin.ft. curb and gutter $1.15, 5,118 cu.yd. earth excav. $0.90, etc., total $72,099.

Tex., Huntsville—Paving Main St. from Sam Houston Normal to Public Sq., 9,500 sq.yd. rein.-con. pavement, 4,000 lin.ft. concrete curbing and 2,500 cu.yd. excav., to W. A. McClendon, 4620 Walker Ave., Houston, $28,000.

Tex., Johnson City—Blanco Co. grading, gravel and adobe surfacing 5.99 mi. Austin-Fredericksburg Highway, 18 ft., 32,847 cu. yd. roadway, 24,450 cu.yd. borrow, 993 cu. yd. loose and 6,826 cu.yd. solid rock excav., 3,557 cu.yd. adobe and 6,758 cu.yd. gravel, to H. J. Evans, 602 West 6th St., Austin, $46,691. Engrs. est. $52,000. Noted Oct. 26.

Tex., Palo Pinto—Palo Pinto Co. grading and surfacing 3.99 mi. State Highway 1, to T. J. Green, Mineral Wells, $72,474. Noted Oct. 26.

Tex., Vernon — For 5.69 mi. surfacing, .69 mi. graveling, 5 mi. concrete paving, to J. P. Foty, Vernon, $2.51 per sq.yd. for pavement, etc., total $136,222; bridges to A. E. Firmin, Colgate, Okla., $9,134. Bids on earthwork rejected. Noted Oct. 5.

Colo., Denver—Concrete paving 12 blocks Alley Paving Dist. 86, 16 ft., to J. F. Roberts Constr. Co., Tramway Bldg., $22,074. Noted Oct. 19.

Idaho, Lewiston—W. Osborn, dist. engr. State Hy. Dept., 202 Pioneer Bldg., grading 2.5 mi. Federal Aid Project 63, North and South Highway, 8,475 cu.yd. earth and 35,300 cu.yd. rock excav., 8,940 lb. rein.-steel, 122 cu.yd. concrete, etc., to D. E. Murphy, Boise, $36,398. Noted Oct. 19.

Utah—State Rd. Comn., Salt Lake City, grading and paving with 7½ in. concrete, 4.5 mi. road from Brigham to Corinne, Federal Aid Project 38 A, 18 ft., Boxelder Co., to Gibbons & Reed, Kearns Bldg, Salt Lake City, $63,759. Noted Oct. 12.

Calif., Oakland—Grading and paving 14th St. between Poplar and Peralta Sts., to Bates & Borland, Oakland Bank of Savings Bldg., 61,924 sq. ft. grading at $0.06, 229 ft. concrete curb with steel guard $1.35, 2,217 ft. concrete curb without steel guard $1.30, 2,632 ft. concrete gutter $0.30, 59,292 ft. asphaltic concrete paving $0.30, etc. Noted Oct. 26.

Calif., San Jose—Improving portion of 9th St., to Raisch Impvt. Co., 46 Kearny St., San Francisco, 134,870 sq.ft. 1½ in. asphaltic concrete on 3 in. asphaltic concrete at $0.24 per sq.ft., 135 sq.ft. concrete gutter, $0.24, etc.

B. C., New Westminster—Grading and ditching 3 mi. Nicomen Flats Sect. of Pacific Highway, 18 ft. wide, to A. B. Palmer Co. Ltd., 736 Granville St., Vancouver, $60,000.

Industrial Works

PROPOSED WORK

Conn., Hartford — Hartford Despatch & Trucking Co., 105 Albany Ave., plans 3 story warehouse, rein.-con. and brick, $125,000. Moores & Dunford, 342 Madison Ave., New York City, archts. and engrs.

N. Y., Alfred—Reynold Bros. plan rebuilding 4 story cheese factory brick destroyed by fire. $50,000-$60,000. Architect not announced.

N. Y., East Aurora—Zapfs Lumber Mill plans rebuilding portion of lumber mill destroyed by fire. $45,000. Architect not announced.

N. Y., Fairport—Amer. Can. Co. plans 4 story, 80 x 176 ft. brick warehouse, Parce Ave. To exceed $40,000. Architect not announced.

N. Y., Willow Point—Binghamton Light, Heat & Power Co., 172 Washington St., Binghamton, plans 2 story addition to power house, here. $65,000-$75,000.

N. J., Trenton—Eberhard Watch Corp., Commonwealth Bldg., plans factory. G. F. Eberhard, Commonwealth, pres.

Pa., Altoona—See "Buildings."

Pa., Erie—Union Storage Co., 9th St., Cleveland, O., plans brick warehouse here. $100,000 or more.

Pa., Harrisburg—See "Buildings."

Pa., Pittsburgh—Guibert Steel Co., Diamond Bank Bldg., having plans prepared 1 story, 55 x 200 ft. plant, West Park. $100,000. Private plans.

Pa., Pittsburgh — Ward Baking Co., Southern Blvd. and St. Marys St., New York City, plans bakery, Ridge Ave., here. $1,500,000. Private plans.

Pa., Saxton — Penn Central Power & Light Co., 1809 Union Ave., Altoona, plans $80,000 bond issue for new light and power plant here.

Pa., Tamaqua—Lehigh Coal & Navigation Co., Lansford, plans to rebuild coal washing plant recently destroyed by fire. Cost between $45,000 and $50,000.

W. Va., Coalwood—Consolidated Coal Co., Watson Bldg., Fairmount, plans 1 story power house. $85,000.

Ga., Athens—Natl. Roofing Co., Fillmore St., Tonawanda, N. Y., plans factory, here. $600,000. Architect not announced.

La., Lafayette—Lafayette Sugar Refining Co. plans to rebuild refinery here, recently destroyed by fire. $300,000. Architect not announced.

Tenn., Knoxville—Cherokee Motor Co., 314 State St., plans 3 story, 100 x 150 ft. brick addition to garage and repair shop. $75,000. C. Reed, pres.

Tenn., Nashville—Tennessee Central R.R., 319 7th Ave., plans to rebuild railroad shops, engine and mechanical repair shops, Hermitage Ave. and Fairfax St., recently destroyed by fire. $100,000. H. R. Manby, ch. engr.

O., Cleveland—Brough Co., 3822 St. Clair Ave., having plans prepared by J. Brugnone, archt., 3505 Woodland Ave., 1 story, 30 x 80 ft. and 50 x 80 ft., brick and steel garage and bottling plant, East 72nd St. and St. Clair Ave. $40,000.

O., Cleveland—City plans new light plant and extensions, brick, steel and concrete, incl. erecting poles, lines, feeders and other plant equipment, to supply 15,000 more consumers. $10,400,000. A. B. Roberts, City Hall, dir. Pub. Utilities. G. Beckwith, City Hall, engr.

O., Cleveland—Glauber Brass Mfg. Co., 7706 Platt Ave., plans altering and building 1 and 2 story, brick and concrete factory addition. $50,000. M. Glauber, pres. Private plans.

O., Cleveland—Natl. Screw & Tack Co., c/o F. G. Walker, archt., 2440 East 75th St., plans 5 story and basement, rein.-con. and brick factory, Platte Ave. near East 76th St. $400,000.

O., Cleveland—Natl. Provision Co., West 65th St., having preliminary plans prepared by Anders & Reimers, archts., 314 Erie Bldg., 3 story, packing house, brick, steel and concrete, West 65th St. $300,000. W. G. Fletcher, pres.

O., Cleveland—J. Sands, East 55th St. and Sweeney Ave., had plans prepared 1 story, 60 x 100 ft., brick and steel machine shop, 10205 Harvard Ave. $40,000. Private plans.

O., Kent—Lamson & Sessions Co., 2188 Scranton Rd., Cleveland, had plans prepared by G. S. Rider & Co., archts. and engrs., Century Bldg., Cleveland, 1 story, 168 x 200 ft., brick and steel factory, here. $125,000.

Industrial Works (Continued)

O., Delaware—Dept. Pub. Welfare, Oak and 9th Sts., Columbus, plans 60 x 80 ft. power house, 25 ft. high, 1 story and basement, laundry with two 30 x 90 ft. wings, brick and concrete, 15,000 gal. coagulating and 26,000 gal. reserve reservoirs, concrete, small pumping station, sulpher well and foot bridge leading to same, at Girls Industrial Home, here. $125,000.

O., Lancaster—Fairfield Eng. Co. having plans prepared 1 story, factory, sawtooth construction. $125,000. Private plans. Noted Oct. 19.

O., Warren—Wadsworth Feed Co. plans to rebuild 5 story flour mill and warehouse, brick, destroyed by fire. $100,000. J. X. Wadsworth, pres.

Ind., Lafayette—Natl. Refining Co., Belt Ry. and Kossuth St., plans to rebuild portion of oil refinery recently destroyed by fire. $100,000.

Ind., Terre Haute—Wabash Valley Electric Co., plans hydro electric power house on Wabash River, Sugar Creek Twp., incl. transmission line. $3,000,000.

Mich., Detroit—Pennsylvania R.R., 1368 Penobscot Bldg., having plans prepared by E. V. Sommerville, engr., 1368 Penobscot Bldg., 1 story, rein.-con., brick and steel, engine and round house, incl. turntable, water tower, coaling station, etc., 19th St.

Mich., Kalamazoo—Kazoo Blow Pipe Co., 408 Church St., having plans prepared by E. Batterson, archt., Kalamazoo, 1 story, 35 x 155 ft. brick and steel factory, North Church St. $50,000.

Wis., Jonesville—Parker Pen Co., Court and Davison Sts., plans 2 story, 60 x 150 ft. factory, rein.-con., brick and steel, plain foundation, South Bluff St. $50,000. Architect not selected.

Wis., Kenosha—C. A. Augustine, archt., 1063 Howland Ave., preparing plans 1 story, 82 x 125 ft., garage and repair shop, brick, rein.-con. and steel. $40,000. Owner's name withheld.

Wis., Milwaukee—A. C. Beck Co., 1 East St., having plans prepared by H. G. Lotter, archt., 427 Milwaukee St., 2 story, 96 x 185 ft., brick and timber factory, plain foundation.

Wis., Racine — Davies Shoe Mfg. Co., Northwestern and Carlisle Sts., plans 2 story, 75 x 150 ft. brick, rein.-con. and steel factory, plain foundation. $100,000. C. Davies, pres. Architect not selected.

Ia., Dubuque—Bosky's Motor Co., 6th and Iowa Sts., having plans prepared 3 story and basement, 100 x 110 ft., brick and concrete garage, 8th and Iowa Sts. $60,000. Private plans.

Ia., Muscatine—Making plans municipal electric light plant and distribution system, also electrification of water pumping plant. $350,000 bonds voted. A. L. Mullergren, 555 Gates Bldg., Kansas City, Mo., engrs. Noted Feb. 23.

Minn., St. Paul—Amer. Radiator Co., 1807 Elmwood Ave., Buffalo, N. Y., having plans prepared by J. F. Groebe, engr. c/o owner, radiator plant, incl. foundry, machine shop, warehouses, etc., rein.-con., steel and brick, Prior Ave., here. $1,500,000.

Kan., Pittsburg—Kansas City Southern R.R., 11th and Wyandotte Sts., Kansas City, Mo., having preliminary plans prepared for new locomotive and car shops, here, incl. steel car shop, engine shop, power house, etc. Cost incl. machinery, over $1,000,000. W. G. Morgan, div. engr.

Ark., Thornton—Stout Lumber Co. plans to rebuild plant recently destroyed by fire. $200,000.

Tex., Celina—Nov. 28, to vote on $50,000 bond issue for electric light plant and waterworks system. Address J. E. Ousley, mayor.

Tex., Dallas — Dallas Power & Light Co., Interurban Bldg., having plans prepared by J. Oram, chief engr., c/o Owner, power plant, 15,000 kw., Flynn St. $2,800,000 total incl. other improvements $3,000,000.

Tex., Dallas—Trinity Paper Mills, Dallas Co. State Bank Bldg., plans paper mill, 30 ton daily capacity. $500,000. P. H. Diggle, secy.

Tex., Ranger—Oil Belt Power Co., Eastland, having plans prepared by J. E. Lewis, engr., Eastland, power plant, Leon Lake, here. $1,000,000.

Tex., Texas City—U. S. Gasoline Corp. having plans prepared 4 unit Knox process cracking plant, 100,000 gal. per day capacity. $250,000. Private plans.

Okla., Cement—See "Waterworks."

Calif., Fresno—United Engine & Machine Co., recently organized, plans machine shop, foundry, molding, pattern and forge shops. D. Suplrizie, 507 Bway., and G. J. Dolan, Jr., 2137 Cherry St., incorporators.

Ont., Guelph — B. Tolton & Son, 173 Woolwich St., plans to rebuild garage and repair shop recently destroyed by fire. $45,000.

Ont., Tillsonburg—Wilkie Products Co., 312 Pitt St. W., Windsor, plans to vote on $100,000 bonds Nov. 14, for 60 x 200 ft. brick and cement factory.

Ont. Toronto—Ford Motor Co. of Canada, 672 Dupont St., plans 1 story, 350 x 650 ft. brick and steel factory, Danforth Ave. $500,000. Private plans.

B. C., Nordin—J. Buckley Estate plans to rebuild mill recently destroyed by fire. $100,000.

BIDS DESIRED

Pa., Ambridge — Natl. Metal Moulding Co., will build 1 story, 98 x 100 ft. brick and steel shop and cafeteria. Work will be done by separate contracts. Private plans.

Pa., Johnstown—Nov. 4, by W. Steele & Sons Co., archts., 1600 Arch St., Phila., 5 story and basement, 133 x 24 2ft. rein.-con. and brick warehouse, Maple Ave., for Johnstown Terminal Warehouse Co. $600,000.

Pa., Pittsburgh—Nov. 4, by F. J. Kress Box Co., 3030 Liberty Ave., 3 story, 70 x 155 ft. brick addition to factory, Liberty Ave. and 29th St. $40,000. T. Pringle, 504 Pittsburgh Life Bldg., archt.

Mich., Flat Rock—Ford Motor Co., Highland Park (Detroit P. O.) receiving bids and opens same about Nov. 4, for 2 story, 59 x 148 ft. gas producer plant incl. coal hopper, concrete, brick and steel, plain foundation. A. Kahn, 1000 Marquette Bldg., Detroit, archt.

Ill., Chicago—F. D. Chase, Inc., archts., 645 North Michigan Ave., receiving bids 1 story, 124 x 173 ft. factory, rein.-con., brick and steel, 5800-14 Throop St., for Goldsmith Bros., 29 East Madison St. $55,000.

Ill., Chicago—J. H. Klafter, archt., 127 North Dearborn St., receiving bids 1 story, 36 x 150 ft., rein.-con. and brick garage, Ogden St. near California Ave. $40,000. Owner's name withheld.

Wis., Ft. Atkinson—Better Sox Knitting Co., 211 South Water St., taking bids 2 story, 50 x 66 ft. factory, rein.-con. and brick, plain foundation, Water St. $40,000. Private plans.

Wis., Milwaukee—R. E. Oberst, archt., 307 Grand Ave., taking bids 1 story and basement, 60 x 110 ft., brick and concrete garage, plain foundation, 16th and Fond du Lac Sts. $40,000. Owner's name withheld.

Wis., Milwaukee—J. Wilging & Co., 1612 Teutonia Ave., taking bids 2 story, 80 x 120 ft., brick and timber factory, plain foundation, Burleigh St. $45,000. Private plans.

CONTRACTS AWARDED

Mass., Brighton (Boston P. O.)—Boston Spun Silk Co., Western Ave., 2 story weave shed, rein.-con. and brick, plain foundation, to C. A. Dodge Co., Erie and Albany Sts., Cambridge. Archts. est. $40,000.

Mass., Hyde Park (Boston P. O.) — Tileston & Hollingsworth Co., 49 Federal St., Boston, 1 story machine shop addition, brick, concrete and steel, plain foundation, here, to Aberthaw Constr. Co., West End Trust Bldg., Boston. Archts. est. $40,000.

Mass., Somerville (Boston P. O.)—C. R. Bowlby, 16 Thorndike St., West Somerville, will build 4 story, 60 x 75 ft. garage, brick and steel, plain foundation, Buena Vista Rd., by day labor. $40,000. Private plans.

Mass., Somerville—A. W. Hastings, 134 Friend St., Boston, 2 story, 69 x 138 x 264 ft. warehouse, brick and steel, plain foundation, Highland Ave. and West St., here, to Wilson & Tomlinson, 79 Milk St., Boston. Archts. est. $100,000.

R. I., Woonsocket—Macrodi Fibre Co., Carnation St., 1 story, 60 x 150 ft. factory, brick and timber, Carnation St., to F. Pelletier, c/o owner. Archts. est. $40,000.

N. Y., Jamestown—Empire Case Goods Co., 142 Foote Ave., 2 story, brick, factory addition, 7,000 sq.ft. floor space, to D. Elander, 456 Buffalo St. Noted July 20.

Pa., Coraopolis—Standard Steel Spring Co., Coraopolis, 1 story, 64 x 141 ft., corrugated iron and steel factory, to Pittsburgh Bridge & Iron Wks., Bessemer Bldg., Pittsburgh. Noted June 22.

Pa., Glassmere — Allegheny Plate Glass Co., 1 story, 50 x 600 ft., brick and steel factory, to S. Mawhinney Constr. Co., 603 McCause Blk., Pittsburgh. Engrs. est. $100,000.

Pa., New Castle—New Castle News, 2 story, 30 x 160 ft. rein.-con., brick, steel and limestone plant, to Chambers Constr. Co., New Castle. Archts. est. $75,000.

Pa., New Castle—Grasselli Powder Co., Guardian Bldg., Cleveland, O., will build six 1 story buildings, wood frame concrete foundation, by day labor. A. Jackson, 1219 Guardian Bldg., Cleveland, O., engr.

Pa., Phila.—Globe Ticket Co., 110 North 12th St., 9 story and basement, 58 x 183 ft. and 34 x 47 ft. plant, 112-122 North 12th St., to G. F. Payne Co., 401 South Juniper St.

Pa., Pittsburgh — Fleishman Yeast Co., 801 Washington St., New York City, 2 story, 75 x 192 ft. concrete and brick garage, Allegheny and Western Aves., here, to B. A. Groah Constr. Co., 847 West North Ave. Archts. est. $50,000. Noted June 1.

Pa., Pittsburgh — Webster Ave. Garage Co., 1010 Webster Ave., 2 story, 40 x 110 ft. steel, brick and tile garage, 1010-12 Webster Ave., to Inland Constr. Co., 5613 Penn Ave. Archts. est. $40,000.

D. C., Wash.—Corby Baking Co., Georgia Ave. and Trumbull St., addition to bakery, to A. L. Smith Co., Woodward Bldg. Noted Oct. 26.

O., Cleveland—Bd. Educ., East 6th St. and Rockwell Ave., 4 story, 104 x 144 ft., brick and rein.-con. warehouse, 3034 East 63rd St., to J. F. Hohlock, Davis and Farley Bldg. Archts. est. $250,000. Noted Oct. 26.

O., Cleveland — Mall Motor Co., 4900 Euclid Ave., 1 story, 50 x 150 ft., brick, steel and concrete garage, to S. W. Emerson Co., 1900 Euclid Ave. Archts. est. $40,000.

O., Cleveland—Surety Investment Co., 1 story, 100 x 140 ft., brick, steel and concrete factory, East 49th St., to Austin Co., 16112 Euclid Ave. Archts. est. $50,000.

O., Cleveland—Hydraulic Press Steel Co., Hydraulic Ave., 1 story, 30 x 30 ft. and 33 x 40 ft. factories and 20 x 50 ft. crane runway, brick and steel, to E. R. Russell, 1419 St. Clair Ave. Archts. est. $50,000.

O., Cleveland—Vance Motor Co., Central Ave. near East 9th St., 2 story, 63 x 132 ft., brick, steel and concrete garage, East 9th St. and Central Ave., to Hunting Constr. Co., Discount Bldg. Archts. est. $100,000.

O., East Cleveland (Cleveland, P. O.)—Pollock-Davis Co., 11628 Euclid Ave., 2 story, 72 x 74 ft., brick, steel and concrete garage, to Boldt Constr. Co., 5902 Euclid Ave., Cleveland. Archts. est. $40,000.

O., Kent—Falls Rivet Co., 1 story, 168 x 210 ft., brick and steel factory addition, to Munkin-Conkey Constr. Co., Century Bldg., Cleveland. Archts. est. $50,000.

Mich., Kalamazoo — Bryant Paper Co., Alcott St., 60 x 100 ft. rein.-con. and brick power plant, 85 ft. high, with 150 ft. rein.-con. stack, to H. L. Vanderhorst, Kalamazoo, cost plus basis. Engrs. est. $100,000.

Ill., Elgin—Elgin Stove & Oven Co., 14 Chicago St., 3 story, factory, rein.-con., brick and steel, State and Schiller Sts., to L. Balkin, 538 South Clark St., Chicago. Archts. est. $100,000. Noted Oct. 5.

Wis., Antigo—Pacific Ice Cream Co., 2 story, 50 x 64 ft., brick, rein.-con. and steel factory, plain foundation, to E. Schoeppe, Antigo. Archts. est. $50,000.

Wis., Kaukauna — Ground Wood Pulp Supply Co. will build 2 story, 60 x 80 ft., brick, rein.-con. and steel pulp mill, by day labor. Private plans.

Wis., Loretta (Draper P. O.) — Hines Lumber Co., Park Falls, will build 1 story, 75 x 100 ft. saw mill, brick and rein.-con., plain foundation, by day labor, here. $75,000. Private plans.

Wis., Milwaukee—A. C. Beck Co., 1 East St., 2 story, 60 x 135 ft. factory, brick and timber, East St., to H. Schmitt & Son, 439 Farwell Ave. Noted Oct. 26.

Wis., Milwaukee—O. Jaeger Baking Co., 914 Central Ave., 1 story, 50 x 150 ft., brick and concrete garage, plain foundation, 9th St., to E. Steigerwald & Sons, 2303 Galena St. Archts. est. $40,000.

Wis., Milwaukee—Republic Building Co., c/o M. Tullgren & Sons Co., archts., 425 East Water St., 1 story and basement, 75 x 150 ft., film storage building, brick and concrete, plain foundation, Wells St., to S. M. Siesel, 160 Ogden Ave. Archts. est. $60,000.

Wis., Oshkosh—R. A. Lutz, 1270 Knapp St., 1 story, 75 x 150 ft., brick and steel plant, to Fluor Bros. Constr. Co., 52 State St., $75,000.

Wis., Shawano — Shawano Co. Bd., 1 story, 60 x 90 ft., central heating plant, brick, rein.-con. and steel, to B. B. Shine, 224 East Walnut St., Green Bay. Archts. est. $40,000. Noted Aug. 31.

Wis., Slinger—L. A. Burg will build 1 story, 60 x 90 ft., brick and rein.-con. garage, plain foundation, by day labor. $40,000. Private plans. Noted Oct. 5.

Wis., Wausau—Wausau Wrecking Co., 4 story, 60 x 120 ft., garage, steel, rein.-con. and brick, plain foundation, to F. Seefeldt, 612 Fulton St. Archts. est. $40,000.

Industrial Works (Continued)

Wis., West Bend—Amer. Service & Storage Garage, c/o M. A. Johannes, Ashford, (R. D. Campbellsport,) 1 story, 60 x 80 ft., brick and concrete garage, plain foundation, to A. Baesemann, West Bend. Archts. est. $40,000. Noted Oct. 19.

Minn., Minneapolis — Lavoris Chemical Co., 52 Western Ave., 3 story and basement, 45 x 110 x 143 ft. factory and office, rein.-con., brick and tile, 3rd St. and 10th Ave. N., general contract to C. F. Haglin & Sons Co., 226 Lumber Exch. Bldg. Total $125,000. Noted Oct. 12.

Mo., Kansas City—Electric Storage Battery Co., 19th and Allegheny Sts., Phila., 1 story and basement, 160 x 220 ft., steel, concrete and brick factory, Belmont and Anderson Sts., here, to Fogel Constr. Co., 619 Reliance Bldg. Engrs. est. $150,000.

Tex., Dallas—Dallas Terminal Warehouse Co., 2 story and basement, (ultimately 10 story), 175 x 200 ft., warehouse, factory and sales display building, 2600 Elm St., to Lange & Trumpf, Dallas, (street address not available). $121,000.

Buildings

PROPOSED WORK

Mass., Cambridge—School—School Bd. had plans prepared by E. B. McGirr, archt., 6 Beacon St., Boston, and soon takes bids 3 story and basement, 80 x 100 ft., brick and stone, wood pile foundation, Putnam Ave. $150,000.

Mass., East Boston (Boston P. O.) — School—Schoolhouse Dept., 1009 City Hall, Boston, having plans prepared by J. J. Driscoll, archt., 6 Beacon St., Boston, 3 story, 20 room, brick, concrete and steel, Emerson Dist. $400,000. Noted July 6.

Mass., Gardner—Hotel—Gardner Hotel Co., c/o H. L. Stevens & Co., archts. and engrs., 522 5th Ave., New York City, having plans prepared 5 story, 85 x 100 ft., brick, steel and stone, Pleasant St., here. $250,000.

Mass., Ware—Church—J. T. Sheehan, pastor of Our Lady of Mt. Carmel Church, having plans prepared by J. Jackson, archt., 185 Church St., New Haven, Conn., brick. $150,000. Noted Sept. 14.

Conn., Hartford — Bank and Office — Phoenix Natl. Bank, Main St. and City Hall Sq., plans brick and stone, City Hall Sq. $500,000. Architect not announced.

N. Y., Alden—Home—Erie Co., City Hall, Buffalo, having preliminary sketches made by Kidd & Kidd, archts., 234 Delaware Ave., Buffalo, group of buildings, rein.-con., brick and steel, here. $1,500,000.

N. Y., Alfred—University—Alfred University plans several buildings incl. gymnasium. Plans also include athletic field, $100,000. Total cost $1,000,000. Architect not announced.

N. Y., Brooklyn—Apartment—A. Levy, c/o Shampan & Shampan, archts. and engrs., 50 Court St., having plans prepared 6 story, 130 x 160 ft., brick, steel and stone, plain foundation, St. Johns Pl. and Underhill Ave. $600,000.

N. Y., Ithaca—Bank and Office—Ithaca Savings Bank, having plans prepared by Gibb & Waltz, archts., 110 North Tioga St. and takes bids in January for 5 story and mezzanine, 80 x 106 ft., steel, stone and brick, North Tioga and East Seneca Sts. $350,000.

N. Y., Merrick—School—Bd. Educ. having preliminary plans prepared by A. T. Sutcliffe, archt., 111 East 40th St., New York, brick, steel and stone, plain foundation. $175,000. Noted Oct. 12.

N. Y., Mineola—Hospital—Nassau Hospital soon takes bids 5 story, brick, steel and stone addition, plain foundation. $350,000. Lord & Hewlett, 2 West 45th St., New York, archts. and engrs.

N. Y., New York—Clubhouse—New Amsterdam Council, Knights of Columbus, c/o V. C. Farrar, archt. and engr., 4 East 39th St., having plans prepared 4 story, 40 x 100 ft., brick and limestone, plain foundation, 107-109 West 70th St. $150,000.

N. Y., New York—Institution—New York Institute for Blind, 412 9th Ave., having plans prepared by McKim, Mead & White, archts., 101 Park Ave., several 3 and 4 story, brick, steel and stone buildings, plain foundations, Bronx and Pelham Parkway. H. J. Balcom, 10 East 47th St., engr.

N. Y., New York—Office—Klar Bros., c/o Gronenberg & Leuchtag, archts. and engrs., 303 5th Ave., having plans prepared 9 story, 65 x 100 ft., brick, steel and stone, plain foundation, 156 West 34th St.

N. Y., New York—School—Childrens Society, 355 East 137th St., having plans prepared 3 story, brick, steel and stone, plain foundation, 167th St. and Grand Concourse. $450,000. Private plans.

N. Y., Niagara Falls—City Hall—City having plans prepared by Kirkpatrick & Cannon, archts., Wood-Harmon Bldg., 3 story and basement, brick, steel, stone, etc., Main St. $368,362. Noted May 4.

N. Y., Patchogue—Theatre—M. Glynne, Astoria Theatre, Steinway and Grand Aves., Astoria, having plans prepared by Reilly & Hall, archts. and engrs., 405 Lexington Ave., New York City, brick, steel and stone, plain foundation, here. $200,000. Noted Oct. 12.

N. Y., Phelps—School—Bd. Educ. having plans prepared by Foote & Carpenter, archts., 302 Carter Bldg., Rochester, new school in Dist. 8, $175,000. Noted Sept. 28.

N. Y., Westbury—School—Bd. Educ. having preliminary plans prepared by Peabody, Wilson & Brown, archts. and engrs., 140 East 39th St., New York, 2 story, brick, steel and stone, plain foundation. $200,000.

N. Y., White Plains — Hospital — New York Orthopaedic Hospital, 3rd Ave. and 23rd St., plans brick, steel and stone, plain foundation, Mamaroneck Ave., here. $500,000. Architect not selected.

N. J., Avon-By the Sea—Apartment Hotel —W. H. Post, c/o F. Grad, archt. and engr., 245 Springfield Ave., Newark, having plans prepared 4 story, brick, steel and stone, plain foundation, here. $300,000.

N. J., Elizabeth—Temple—Masonic Temple Assn., 504 North Broad St., plans temple. $400,000. Architect not selected.

N. J., Jersey City—School—Bd. Educ. having revised plans prepared by J. T. Rowland, Jr., archt., 100 Sip Ave., 3 story addition to P. S. 11, brick, steel and stone, plain foundation, Bergen St. $750,000. Noted Feb. 16.

N. J., Newark—Hospital—City having plans prepared by J. S. Piggot, archt., 665 Broad St., 3 story, brick, steel and stone addition, plain foundation, Fairmont Ave. $300,000. C. P. Gillen, dir. D. Sprague, 167 West 13th St., New York City, engr.

Pa., Altoona—Administration and Office—Bell Telephone Co., Phila., (street address not available), plans 6 story and basement, 110 x 172 ft. concrete, brick, steel and stone administration building, office and warehouse, 12th Ave., here. $1,000,000. L. H. Kennard, pres.

Pa., Breckenridge—High School—School Dists. of Boro. and Harrison Twp., c/o T. M. Hathaway, 54 Garfield St., Natrona, take bids about Jan. 1, 2 story and basement, 178 x 179 ft. $245,000. J. H. Phillips, P. O. 977, Pittsburgh, archt.

Pa., Clearfield—Post Office and Lodge—Loyal Order of Moose, East Market St., plans 3 story and basement, 70 x 100 ft. concrete and brick, East Market St. $150,000.

Pa., Duquesne—School—Bd. Educ., plans 2 story and basement, 24-32 rooms, 6th St. $300,000. Architect not selected.

Pa., Erie—Schools—Bd. Educ. having plans prepared by A. Meyers, school archt., c/o Bd. Educ., two grade schools one in Erncliff Sect., and one at 28th and Reed Sts. $250,000.

Pa., Freeport—High School—Bd. Educ. plans new high school. $200,000.

Pa., Harrisburg—Administration, Office, etc.—Bell Telephone Co., Phila., (street address not available), plans 105 x 210 ft. administration, office and warehouse, concrete, brick, steel and stone, Court and Pine Sts., here. $1,000,000. L. H. Kennard, pres.

Pa., Jersey Shore — Hospital — Jersey Shore Hospital, Inc., 107 Main St., plans 3 story and basement, 100 x 110 ft. concrete, brick and steel, Howard St. $150,000. W. L. Wilson, pres.

Pa., Monongahela — High School — Bd. Educ. plans new brick high school. $200,000.

Pa., Phila. — Church — Woodland Ave. Methodist Church, c/o R. C. Carter, 1413 South 5th St., soon takes bids 1 story and basement, rein.-con., brick, steel and stone, plain foundation, 55th and Springfield Aves. $200,000. G. E. Savage, Witherspoon Bldg., archt.

Pa., Phila.—Hospital—Samaritan Hospital plans 6 story and basement, rein.-con., brick, steel and stone, plain foundation, Broad and Ontario Sts. $750,000. A. W. Barnes, 22 South 17th St., archt.

Pa., Pittsburgh — Clubhouse — Americus Republic Club, 211 Smithfield St., having plans prepared by Kaufman Realty Co., archts., 413 4th Ave., 6 story and basement, 40 x 70 ft. brick, steel and tile, 343-347 2nd Ave. $150,000.

Pa., Pittsburgh—Hotel and Welfare House —Salvation Army, 324 Diamond St., having plans prepared by T. Pringle, archt., Renshaw Bldg., 8 story and basement, 80 x 120 ft. brick, steel and tile, 2nd Ave. $500,000.

Pa., Pittston — Theatre — Comerford Amusement Co., 303 Lackwanna Ave, Scranton, plans brick, steel and terra cotta, (2,500 seating capacity), to exceed $150,000.

Pa., Warren—High School—Bd. Educ. purchased 300 x 500 ft. site and plans to build school, 20 class rooms, auditorium, two gymnasiums, laboratory and lecture rooms. $400,000.

Pa., Warren—High School—Bd. Educ. plans new junior high school. $400,000. J. G. Smith, member building com. Architect not selected.

D. C., Wash. — Church, Convent and School—Milburn-Heister, archts., 710 14th St., N. W., preparing plans church, convent and Sunday school buildings. $450,000. Owner's name withheld.

D. C., Wash.—Store—Lansburgh Bros., Inc., 420 7th St., N. W., having plans prepared by Milburn-Heister Co., archts., 710 14th St., N. W., department store addition. $200,000.

Va., Alexandria — Memorial Temple — George Washington Natl. Masonic Memorial Assn., Scranton, Pa., having plans prepared by Helmle & Corbett, engrs. and archts., 132 West 42nd St., New York City, brick, steel and stone, plain foundation.

Va., Richmond — Club — Westmoreland Club, 601 East Grace St., having preliminary plans prepared by A. C. Blossom, archt., 680 5th Ave., New York City, enlarging and remodeling club building. $240,000. E. Nolting, chn. com.

W. Va., Berkeley Springs—Hotel—Pendleton Arms Hotel Co., 67 Wall St., New York City, having plans prepared by Hewitt & Ash, archts., 1827 Arch St., Phila., Pa., 4 and 5 story and basement, 42 x 117 ft., 41 x 75 ft. and 27 x 46 ft. also includes casino, 4 cottages and 18 hole golf course. $2,000,000.

W. Va., Harrisonville—Court House—Comrs. Ritchie Co. having plans prepared by Holmboe & Pogue, archts., Empire Bank Bldg., Clarksburg, 3 story and basement, rein.-con., brick and stone. $150,000.

W. Va., Logan—Store and Apartment—White & Browning, Box 758, having plans prepared by Meanor & Handloser, archts., Robson-Pritchard Bldg., Huntington. 5 story and basement, 45 x 125 ft., fireproof. $150,000.

W. Va., Morgantown—Theatre and Store Communtzis Bros., having revised plans prepared by C. Reger, archt., Traction Bldg., Morgantown, Pa., 4 story and basement, 95 x 143 ft., rein.-con. and brick. $150,000. Noted Feb. 23.

Ga., Atlanta—Store and Office—Massell Realty Co., Peachtree St., plans 3 story and basement, 100 x 100 ft., brick, Whitehall and Trinity Sts. $150,000. Architect not selected.

Ala., Tuscaloosa—Bank and Office—First Natl. Bank of Tuscaloosa having plans prepared by D. O. Whilden, archt., Title Bldg., Birmingham, 10 story, 51 x 190 ft. $280,000.

La., Shreveport—Office—J. R. Slattery Co., Shreveport, plans 16 story, brick and steel. $1,500,000.

Tenn., Memphis — Cathedral — Episcopal Church plans stone memorial cathedral, Poplar Ave. $200,000. Hanker & Cairns, Madison Ave. Bldg., archts.

O., Cleveland — Apartments — Moreland Development Co., c/o J. Kirby, Discount Bldg., having plans prepared by A. W. Harris, archt., Discount Bldg., 4 and 6 story and basement, 108 suites, brick, steel and concrete, North Moreland Blvd. and Kemper Rd. $1,000,000.

O., Cleveland—Dormitory— Y. M. C. A., c/o R. E. Lewis, secy., East 22nd St. and Prospect Ave., plans brick, steel and concrete addition. $500,000. Architect not selected.

O., Cleveland—High School—Bd. Educ., East 6th St. and Rockwell Ave., having plans prepared by W. R. McCornack, archt., East 6th St. and Rockwell Ave., 2 story and basement, brick, steel and concrete addition, East 79th St. and Hough Ave. $300,000.

O., Cleveland—Hospital and Administration—City having plans prepared by A. C. Wolf, archt., 610 Swetland Bldg., 2 story, brick, steel and concrete, Warrensville Farm. $200,000. R. Perkins, City Hall, dir. Pub. Welfare.

O., Cleveland—School—Bd. Educ., East 6th St. and Rockwell Ave., having plans prepared by W. R. McCornack, archt., East 6th St. and Rockwell Ave., 2 story, brick, steel and concrete annex, Grand Ave. and Kinsman Rd. $200,000.

O., Cleveland—Schools—Bd. Educ., East 6th St. and Rockwell Ave., plans 2 story and basement, 22 room, elementary school, Cranwood site, $600,000, 2 story and basement, 22 room elementary school, East 144th St. and Castalia Ave., $600,000, 2 story Willson High School annex, East 55th St. near Superior Ave., $350,000, 3 story and basement, 70 room, Senior High School an-

Buildings (Continued)

nex, Randall Rd. and Bridge Ave., $2,000,000, all brick, steel and concrete. W. H. McCornack, East 6th St. and Rockwell Ave., archt.

O., Cleveland—Schools—Bd. Educ., East 6th St. and Rockwell Ave., having plans prepared by W. R. McCarnack, archt., East 6th St. and Rockwell Ave., 2 story and basement, 12 room, addition to Hicks School, $200,000; 2 story and basement, 22 room, Parkhurst Florian site, $500,000; 3 story and basement, 25 room high school, Oak Park and Henninger Aves., $750,000, all brick, steel and concrete.

O., Cleveland—Store and Apartment—M. Marmorstein, 607 Ulmer Bldg., having preliminary plans prepared by S. H. White, archt., 1032 Schofield Bldg., 12 story and basement, 150 x 172 ft., brick, steel and concrete, Euclid Ave. and Ford Dr. $2,000,000. W. S. Ferguson Co., 1900 Euclid Ave., engrs.

O., Cleveland—Store and Apartment—Stratford Court Development Co., c/o J. Kirby, Discount Bldg., having plans prepared by A. W. Harris, archt., Discount Bldg., 3 story and basement, 150 x 600 ft., brick, steel and concrete, Shaker Blvd. $1,000,000.

O., Cleveland Heights (Warrensville P. O.) — Church - Fairmount Presbyterian Church, c/o E. Erickson, pastor, 2108 Stillman Rd., having plans prepared by Tuttle & MacDowell, archts., Bulkley Bldg., Cleveland, 1 story and basement, brick, concrete and terra cotta, Fairmount Blvd. $150,000.

O., East Cleveland (Cleveland P. O.)—Commercial and Apartment—Euclid-Taylor Realty Co., c/o R. Ewing, Williamson Bldg., Cleveland, had plans prepared by W. S. Ferguson Co., archts., 1900 Euclid Ave., Cleveland, 3 story and basement, 50 x 120 ft., brick and steel, Euclid Ave. and Taylor Rd., here. $150,000.

O., Logan—Court House—Hocking Co. having sketches made by several architects, brick, steel and stone. $400,000. Noted Aug. 24.

O., Mt. Vernon—Memorial—H. C. Devin, chn. Memorial Comm. of Knox Co., having plans prepared by Richards, McCarty & Bulford, archts., 584 East Broad St., Columbus, 3 story and basement, 95 x 130 ft., brick, stone and concrete. $200,000.

O., Tiffin—High School—Bd. Educ. having plans prepared by Langdon, Hogly & Gram, archts., 1742 Nicholson Bldg., Toledo, 3 story and basement, brick and steel, $190,000. F. Mann, clk.

Ind., Indianapolis—Lodge—Elks Realty Co., 13 East Vermont St., having revised plans prepared by A. Scheirer, archt., Indiana Trust Bldg., 8 story and basement, brick and steel, North Meridian St. $750,000.

Ind., Indianapolis—Temple—A. Biccard, secy., Indiana Pythian Bldg., plans 3 story and basement, brick and stone. $350,000. Architect not selected.

Ind., South Bend — High School — St. Joseph Catholic Church plans 2 story and basement, brick. $500,000. Architect not selected.

Mich., Benton Harbor—Clubhouse, etc.—Michicago Club, c/o R. Dunn, pres., Otis Bldg., Chicago, plans 3 story, brick and steel clubhouse, here, and two 18 hole golf courses, Forest Park. $250,000. Architect not selected.

Mich., Benton Harbor—Hotel—W. Bastar, 719 Lake Blvd., St. Joseph, having preliminary sketches prepared by Nichol, Scholar & Hoffman, archts., Lafayette, Ind., 7 story and basement, 100 x 100 ft. rein.-con. and brick, Main St., here. $300,000.

Mich., Detroit—Church—Jefferson Ave. Presbyterian Church, Rivard and Larned Sts., having plans prepared by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 2 story, 60 x 120 ft. brick and steel, plain foundation, Jefferson and Burns Aves. $350,000.

Mich., Owosso—School—Bd. Educ. having plans prepared by Lane, Davenport & Peterson, archts., 2320 Dime Bank Bldg., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. $200,000.

Mich., Trenton—High School—Bd. Educ. Dist. 1, plans 3 story, concrete, brick and steel, plain foundation, $165,000 bonds voted. Architect not selected.

Ill., Chicago—Apartment and Store—B. I. Morris, c/o A. L. Himelblau, archt., 179 West Washington St., plans 3 story, 100 x 266 ft., rein.-con., brick and steel, Buckingham Pl. near Aldine St. $400,000.

Ill., Chicago—High School—St. Joseph's Convent, 575 Layton Blvd., Milwaukee, Wis., having plans prepared by Brust & Philipp, archts., 405 Bway., Milwaukee, Wis., 4 story and basement, 220 x 236 ft., rein.-con. and brick, plain foundation, Lawndale Ave. and Byron St., here. $600,000.

Ill., Chicago—Hotel—W. W. Ahlschlager, archt., 65 East Huron St., preparing plans Graemere Hotel, 8 story, 200 x 216 ft., rein.-con., brick and steel, Washington Blvd. and Homan Ave. $2,000,000. Owner's name withheld.

Ill., Chicago — Hotel — Woltersdorph & Bernhardt, archts., 138 North La Salle St., preparing plans 12 story, 118 x 125 ft., rein.-con., brick and steel, Madison and Hamlin Sts. $1,000,000. Owner's name withheld.

Ill., Chicago—Office—Library Bureau, Tower Bldg., plans 7 story, 50 x 150 ft., rein.-con., brick and steel, 214-16 West Monroe St. $250,000. Mundie & Jensen, 39 South La Salle St., archts.

Ill., Lake Forest—Hotel—M. H. Patterson, Deer Path Inn, having plans prepared by Ayers, Beck & Co., archts., 118 North La Salle St., Chicago, 4 story, 172 x 233 ft., rein.-con., brick and steel, here. $500,000.

Ill., Niles (Chicago P. O.)—Dormitory—St. Hedwig Industrial School having preliminary plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, Wis., 3 story and basement, brick and concrete, here. $200,000.

Wis., Appleton—School—Bd. of Educ. having plans prepared 3 story and basement, rein.-con., brick and tile. $400,000. G. L. Lockhart, 1353 University Ave., St. Paul, archt.

Wis., Kenosha—Temple—Masonic Temple Building Assn., c/o R. Y. Cooper, chn. building com., 548 Exch. St., having plans prepared by R. G. Schmid & Co., archts., 154 West Randolph St., Chicago, 3 story and basement, 100 x 154 ft., brick, concrete and stone, plain foundation, Deming St. $175,000.

Wis., Milwaukee — Apartment-Hotel — G. Reid, (promoter), 428 Grand Ave., having preliminary plans prepared by R. Messmer & Bros., archts., 221 Grand Ave., 5 or 6 story, rein.-con. and brick, plain foundation, Prospect Ave. $700,000.

Wis., Milwaukee—Apartment—Wisconsin Bond & Mortgage Co., 440 Bway., had plans prepared by Voelz & Siebert, archts., 373 Bway., 3 story and basement, 78 x 100 ft., brick and concrete, plain foundation, Juneau and Marshall Sts. $150,000. Noted Oct. 5.

Wis., Milwaukee—Auditorium—Auditorium Bd., 5th and Cedar Sts., plans to remodel auditorium, incl. new roof, storage rooms, exits, etc. $220,000. C. E. Malig, City Hall, archt.

Wis., Sheboygan—Store—H. C. Prange & Co., 731 North 8th St., having plans prepared by W. C. Weeks, archt., 720 Ontario Ave., 2 story and basement, 110 x 120 ft., brick, rein.-con. and steel, plain foundation. $160,000.

Wis., Wauwatosa—Home—Kinderfreund Society, West Milwaukee Ave., rejected bids 3 story, brick and concrete, plain foundation, West Main St. $150,000. Will readvertise. R. Messmer & Bros., 221 Grand Ave., Milwaukee, archts.

Wis., Wauwatosa—School—Bd. Trustees of Milwaukee Co. plans 2 story, brick and concrete, plain foundation, at Home for Dependent Children. $150,000. W. L. Coffey, mgr. of county institutions, Architect not selected.

Ia., Burlington—Municipal—City plans 3 story and basement, brick, concrete and stone. $150,000. J. H. Johnson, clk. Architect not announced.

Ia., Cedar Rapids—Court House and Jail—Linn Co. election Nov. 7 to vote on $750,000 bonds for court house and jail, 2nd Ave. and Court St. H. R. Churchill, aud. Noted Jan. 13, 1921.

Ia., Monticello—School—L. E. Hoag, secy. School Bd., having plans prepared by Kefer & Jones, archts., 204 Masonic Temple Bldg., Des Moines, 3 story and basement, 102 x 215 ft., rein.-con., brick and stone, $170,000. Noted March 16.

Ia., Mt. Ayr—Court House—Ringgold Co. election Nov. 7 to vote on $175,000 bonds for court house. E. E. Cornwall, aud. Keffer & Jones, 204 Masonic Temple Bldg., Des Moines, archts.

Minn., Minneapolis — Apartment — J. Gruesner, 727 Andrus Bldg., having plans prepared by P. E. Crosier, archt., 916 New York Life Bldg., 3 story and basement, 120 x 125 ft., brick, rein.-con. and stone, Lyndale Ave. and 33rd Sts., S. $150,000.

Minn., Minneapolis—Office—Thorpe Bros., 206 Andrus Bldg., having plans prepared by Magney & Tusler, archts., 126 South 9th St., 8 story and basement, 48 x 110 x 120 ft., rein.-con., brick and tile, Marquette Ave. between 5th and 6th Sts. $200,000.

Minn., Rochester—Court House—Olmsted Co. plans 3 or 4 story and basement, rein.-con., brick, tile and stone. $500,000. A. L. Glabe, aud. Architect not selected.

Minn., St. Paul—Schools—Nov. 7, to vote on $5,000,000 bond issue for schools. F. X. Tewes, City Hall, archt.

Kan., Atchison—Gymnasium—St. Benedict's College having preliminary plans prepared by E. Brielmaier & Sons Co., archts., 432 Bway., Milwaukee, Wis., 54 ft. high, 100 x 190 ft., brick and concrete, plain foundation. $150,000.

Kan., Hutchinson—Hotel—Walcott Hotel Co. having plans prepared by McKecknie & Trask, archts., 719 Gloyd Bldg., Kansas City, Mo., 8 story and basement, 75 x 150 ft., rein.-con., brick and terra cotta, Sherman and Main Sts. $400,000.

Kan., Kansas City—Bd. Educ. having plans prepared by Rose & Peterson, archts., 434 Brotherhood Bldg., 4 story and basement, 90 x 119 ft., rein.-con., brick and stone, 18th and Haskell Sts. $250,000.

Kan., Leavenworth—High Schools—Bd. Educ. had plans prepared and soon takes bids High School, 1 story and basement, 118 x 160 ft. rein.-con., brick and stone, 3rd Ave. $150,000; Morris High School, 1 story and basement, 118 x 160 ft., rein.-con., brick and stone, $150,000. C. A. Smith, Finance Bldg., Kansas City, Mo., archt.

N. D., Jamestown—High School—Bd. Educ. soon takes bids superstructure for 3 story and basement, 125 x 195 ft. rein.-con., brick, stone and tile. $250,000. Shannon, Boyd & Boyd, Jamestown, archts. C. F. Tweed, 531 Metropolitan Bank Bldg., Minneapolis, Minn., engr. Contract awarded for foundation, to E. A. Moline, Bottineau, $8,450.

Mo., Columbia — Dormitories, etc. — Stephens College purchased site adjoining college and plans 4 dormitories, $150,000 each, library $250,000. Architect not selected.

Mo., Kansas City—Home—International Home for Girls, 63rd St. and Swope Parkway, having sketches made by C. A. Smith, archt., Finance Bldg., rein.-con., brick and stone. $150,000.

Mo., Kansas City—Office—Peoples Building Co., 433 Lathrop Bldg., having plans prepared by S. E. Chamberlain, archt., 216 Ridge Bldg., 12 story and basement, 132 x 143 ft., rein.-con. and brick, 10th and Oak Sts. $2,500,000.

Mo., Kansas City—Schools—Bd. Educ. having preliminary plans prepared by C. A. Smith, archt., Finance Bldg., 1 story and basement, 180 x 250 ft. high school, 74th St. and Penn Ave., $250,000, New Central High School, $500,000, High School on 63rd St., $1,500,000, High School on 48th St., $1,400,000, 1 story and basement Willard High School, $250,000, 1 story and basement Shiloh Pub. School, $250,000, all rein.-con., brick and cut stone.

Mo., Kansas City—School—Bd. Educ. takes bids in 2 or 3 weeks, 115 x 115 ft., brick and cut stone. $150,000. C. A. Smith, Finance Bldg., archt.

Mo., St. Louis—Apartment—May Building & Investment Co., c/o H. A. Barnett, 808 Chestnut St., purchased site and plans eighteen 2 story and basement, rein.-con. and brick, plain foundations, Taylor, Forest Park and Duncan Aves. $300,000-$365,000. Architect and engineer not selected,

Tex., San Antonio—Church and Rectory—St. Mary Catholic Church having plans prepared by F. B. Gaenslin, archt. and engr., Bedell Bldg., 1 story and basement, 95 x 193 ft., rein.-con., brick and stone, plain foundation. $300,000.

Tex., San Antonio—Y. M. C. A. conducting campaign to raise $400,000 for building. Address E. L. Mogge, c/o St. Anthony Hotel, regional representative.

Wash., Seattle—Apartment—W. E. Humphrey, Colman Bldg., having plans prepared by E. Guenther, archt., Ry. Exch. Bldg., 5 story and basement, 78 x 108 ft., 2nd and Blanchard Sts. $165,000.

Wash., Seattle — Hotel — United Hotels Co., 25 West 45th St., New York City, having sketches made by G. B. Post & Son, archt. and engr., 101 Park Ave., New York City, brick, steel and stone, plain foundation, here. $3,000,000.

Wash., Seattle—Office and Store—Arcade Building & Realty Co., Arcade Bldg., having plans prepared by H. Thomas, archt., Arcade Bldg., 7 story, 108 x 120 ft., steel, concrete and terra cotta, 2nd and Union Sts. $500,000.

Wash., Tacoma—Church—First Presbyterian Church, 10th and G Sts., having plans prepared by Cram & Ferguson, archts., 248 Boylston St., Boston, Mass., 100 x 295 ft., concrete, brick and steel. Tacoma and Division Aves. $250,000.

Calif., Dinuba—Hotel and Store—C. Wilson, c/o Dinuba Improvement & Investment Co., had plans prepared by E. J. Kump, archt., Rowell Bldg., Fresno, 4 story, 100 x 100 ft., brick, Tulare and J Sts. $150,000.

Calif., Fresno—Store, etc.—Black's Package Co., 1025 Van Ness Ave., having plans prepared by R. F. Felchlin Co., archts. Bank of Italy Bldg., 2 story and basement, store building and refrigerating plant 200 ft. frontage, Van Ness Ave. $150,000.

Calif., Mt. View — School—Mt. View School Dist., having plans prepared by W. H. Weeks, archt., 369 Pine St. San Francisco, group of buildings, rein.-con. $197,000.

Buildings (Continued)

Calif., Porterville—Bank—Home Bank of Porterville having plans prepared by A. Johnson, archt., Kingsburg Bank Bldg., Kingsburg, 2 story, 60 x 120 ft.

Calif., San Francisco—Apartment—Crosswings Community Apartments, E. K. Little, pres., c/o H. H. Gutterson, archt., 278 Post St., having plans prepared 9 story, basement and sub-basement, rein.-con. and steel, Sacramento and Mason Sts. $150,000.

Calif., San Francisco—Loft—Cebrian Co., c/o G. A. Applegarth, archt., Claus Spreckles Bldg., had plans prepared 4 story, rein.-con., Fremont and Mission Sts. $200,000.

Calif., San Francisco—Store and Apartment—W. H. Woodfield, Jr., 453 28th Ave., had plans prepared by W. F. Gunnison, archt., 1666 Golden Gate Ave., 5 story and basement, 57 x 87 ft., concrete, Sutter and Larkin Sts. $200,000.

Calif., Stockton—Church—First Church of Christ Scientist, c/o G. Allen, archt., 37 South Aurora St., having plans prepared church, probably concrete. $150,000.

Calif., Yuba City—High School—Yuba City Union High School Dist., to vote on $250,000 bonds Nov. 6, to purchase site and construct new high school buildings. C. K. Schnabel, trustee.

Ont., Woodstock — Hospital — Hospital Trust plans wing. $200,000. Address H. Little, chn.

Ont., Windsor—School—Bd. Educ. having plans prepared by A. H. McPhail, archt., McGregor Bldg., 3 story and basement, 20 rooms, concrete, brick, steel and stone addition. $300,000.

B. C., Vancouver—Office—City will vote on $225,000 bonds in December for 6 story, 75 x 130 ft. rein.-con., brick and tile, Main and Pender Sts.

BIDS DESIRED

Mass., Beverly — High School — School Com. receiving bids, 3 story and basement, 100 x 150 ft., rein.-con. and brick, plain foundation, Bohier Rd. $700,000. Adden & Parker, 177 State St., Boston, archts. Noted June 8.

Conn., Glastonbury—High School—Nov. 10, by School Bldg. Com., 2 story and basement, brick and steel, plain foundation, Main St. $150,000. Brooks & Glazier, Lewis St., Hartford, archts. Noted July 6.

N. Y., Buffalo—School—Nov. 8, by Bd. Educ., 1401 Telephone Bldg., 3 story, 180 x 250 ft., rein.-con., brick, steel and stone, Newburgh Ave. $500,000. Associated Buffalo Architects, 232 Delaware Ave., archts.

N. Y., Canandaigua—Court House—Nov. 14, by Court House Com. of Bd. Supervs. Ontario Co., Court House, alterations and additions to court house. J. F. Warner, 1036 Granite Bldg., Rochester, archt.; adv. this issue.

N. Y., Jamestown—High School—Jan. 10, by Bd. Educ., 3 story, 150 x 180 ft., brick, Buffalo St. $350,000. Guilbert & Betelle, 541 Broad St., Newark, N. J., archts. Noted June 8.

N. Y., New York—Apartment—West 64th St. Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., 50 x 100 ft., brick, steel and stone, plain foundation, West 64th St. $250,000. Work will be done by separate contracts.

N. Y., New York—Hospital—Nov. 6, by Warren & Wetmore, archts., 16 East 47th St., 7 story, brick, steel and stone, plain foundation, 87th St. and East End Ave., for East End Hospital, 87th St. and East End Ave. $1,000,000.

N. J., Collingswood—High School—P. A. Davis, archt., 1713 Sansom St., Phila., taking bids 3 story, 135 x 150 ft. and 1 story 46 x 86 ft., cut stone and brick, plain foundation, here, for school Bd. $250,000.

Pa., Altoona—Store and Office—W. A. Hoyt, engr., Hutchinson Bldg., will build and award separate contracts for 5 story and basement, 70 x 120 ft. rein.-con. and brick, 11th Ave., for J. Brett, 1309 11th Ave. $150,000.

Pa., Carrick (Pittsburgh P. O.)—Church—St. Basills Roman Catholic Church, 1735 Brownsville Rd., will build 2 story, 63 x 138 ft. brick, Brownsville Rd., by separate contracts. $150,000. H. J. Lang, 1617 Brownsville Rd., archt.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., taking bids 2 story, rein.-con., brick and steel, plain foundation, 3rd and Duncannon Sts. $250,000. Private plans.

Pa., Phila. — School — Nov. 9, by Bd. Educ., 99th and Chestnut Sts., 3 story and basement, rein.-con., brick, steel and stone, plain foundation, 9th and Oregon Aves., $500,000; 3 story and basement, rein.-con., brick and steel, plain foundation, Germantown Ave. and Southampton St., $350,000. Private plans.

D. C., Wash.—High Schools—Nov. 22, by Dist. Comrs., 509 Dist. Bldg., for 2 junior high schools; adv. this issue.

W. Va., Charleston—Store—Nov. 4, by Warne, Tucker & Patterson, archts., Masonic Bldg., 5 story, 125 x 160 ft., brick, stone and steel. Lee St., for Coyle & Richardson, Capitol St. $175,000. Noted June 22.

Ga., Athens—Schools—Nov. 7, by I. W. Barnett, city engr., two 1 story and basement, each 34 x 232 ft., terra cotta, tile, brick and stucco. Separate bids for construction, steam heating, ventilating and plumbing. Lockwood & Poundstone, Atlanta, archts.

Ga., Atlanta—School—Nov. 10, by Bd. Educ. c/o J. N. Landers, city purch. agt., City Hall, for Colored Junior-Senior High School, 3 story and basement, 68 x 385 ft., concrete, steel and tile, West Hunter and C Sts. E. C. Wachendorff, 620 Forsyth Bldg., archt. A. T. Brown, Forsyth Bldg., engr.

Ga., Atlanta—Store—Nov. 15, by M. Rich & Bros. Co., c/o Hentze, Reid & Adler, archts., Peachtree St., 6 story and basement, 177 x 199 ft., steel, brick rein.-con. and stone, Alabama, South Broad and Forsyth Sts. Spiker & Lose, Forsyth Bldg., engrs. Noted June 22.

Ala., Birmingham—Apartment Hotel—Nov. 15, by J. E. Salie, archt., 620 Empire Bldg., 7 story, 133 x 200 ft., rein.-con., brick and steel, plain foundation, Highland Ave. and Iroquois St., for H. M. Malony. $1,250,000.

Ala., Birmingham—Auditorium—Nov. 20, by H. D. Breeding, archt., Watts Bldg., 180 x 221 ft., terra cotta, brick and steel, concrete pile foundation, 8th Ave. and 21st St. $400,000.

O., Bowling Green—Dormitory—Nov. 25, by Bd. Trustees State Normal College, 3 story and basement, 40 x 150 ft., brick, concrete and stone. $150,000. S. P. Stewart & Son, Bowling Green, archts. Noted April 6.

O., Cleveland—School—Nov. 20, by Bd. Educ., East 6th St. and Rockwell Ave., 2 story, 160 x 300 ft., brick, steel and concrete, West 140th St. and Diana Ave. $500,000. W. R. McCornack, East 6th St. and Rockwell Ave., archt.

O., East Cleveland (Cleveland P. O.)—Apartment—M. Margolin, 548 East 118th St., Cleveland, taking bids 3 story and basement, 69 x 124 ft., brick and timber, 14902 Superior Rd., here. $150,000. M. Weis, 617 Union Bldg., Cleveland, archt.

Mich., Detroit—School—Nov. 21, by Bd. Educ., 2 story and basement, 93 x 105 ft. rein.-con., brick and steel, plain foundation, Kercheval Ave. $150,000. Malcomson, Higginbotham & Palmer, 405 Moffat Bldg., archts.

Ill., Chicago — Church — E. Steinborn, archt., 111 North Dearborn St., receiving bids 2 story and basement, 65 x 125 ft., rein.-con., brick and steel, California Ave. and Hirsch St., for First Austrian Congregation, c/o architect. $200,000.

Wis., South Madison (Madison, P. O.)—High and Grade School—F. L. Kronenberg, archt., Carroll Blk., taking bids 2 story, 60 x 180 ft., brick, rein.-con. and steel, plain foundation. $150,000.

Tex., San Antonio—Cathedral—Nov. 22, by R. Cameron, archt., Central Trust Bldg., constructing Scottish Rite Cathedral. $1,000,000. H. M. Green Co., North Texas Bldg., archts. Noted June 22.

Ont., Owen Sound—School—Nov. 21, by A. Wright, trustee and chn. Bd. Educ., technical school. $300,000. Prices wanted on all materials.

BIDS RECEIVED

N. Y., New York—Armory—Armory Bd. opened bids Oct. 30, general contract reconstructing Squadron A; Manhattan Boro, from W. W. Constr. Co., 51 East 42nd St., $213,640, Lustig & Weil, 103 Park Ave., $255,193; heating work, from Federal Heating Co., 300 Madison Ave., $28,672, E. G. Woolfolk & Co., 15 West 38th St., $28,860. Austin Eng. Co., 121 West 42nd St., $28,971.

N. C., Greensboro—Schools—School Bd. opened bids Oct. 23, two 2 story and basement, brick, (a) Ashboro St., (b) West Lee St., from J. W. Stout & Co., Sanford, (a) $142,833, (b) $183,670; Southeastern Constr. Co., Charlotte, (a) $146,900, (b) $177,990; Hunt & Saddler, Greensboro, (a) $147,628, (b) $174,269. Noted Oct. 12.

Wis., Racine—Vocational School—Bd. of Industrial Educ. opened bids Oct. 24, 3 story, 185 x 220 ft., brick, plain foundation, from Bondgard & Christensen, 2222 Kinzie Ave. $258,242; A. Kappel, 526 South Wisconsin St., $276,000; L. Hansen, 816 College Ave. $290,090. Noted Sept. 21.

Neb., Omaha—High School—Bd. Educ., c/o W. T. Bourke, secy., 603 City Hall, 3 story and basement, 174 x 369 ft., brick and stone, Ames Ave. between 31st and 32nd Sts., general contract from J. E. Wakefield Co., 750 Brandeis Theatre, $626,400; Vaugh Constr. Co., W. [illegible] Ridge, $631,159; P. Kiewitz Sons, 754 [illegible] Nat'l Bank, $623,000, cost plus fee basis, excavating work will be done by day labor. Noted Feb. 9.

CONTRACTS AWARDED

Mass., New Bedford—School—St. Joseph's Roman Catholic Church, Kearsarge St., to build 2 story and basement, brick and steel, by day labor. $150,000. F. A. Rossean in charge.

Mass., West Newton (Boston P. O.)—High School—City of Newton, 3 story and basement, brick and concrete, Waltham St. to H. C. Cunningham, 23 Central Ave., Lynn, $151,850. Noted Oct. 19.

Conn., Waterbury—Office—American Brass Co., Grand and Meadow Sts., 2 story, 70 x 240 ft., brick and steel, plain foundation, Meadow St., to Tracy Bros. Co., 22 Benedict St. Archts. est. $150,000. Noted March 30.

N. Y., New York—Apartment—Renzel Realty, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, 125 x 100 ft., brick, steel and stone, plain foundation, University Ave. and 176th St., by day labor. $200,000.

N. Y., New York—Apartment—Tremont Realty Co., c/o De Rose & Cavalieri, archts. and engrs., 370 East 149th St., 5 story, 60 x 105 ft., brick, steel and stone, plain foundation, Tremont Ave. and Devoe St., by day labor. $150,000.

N. Y., New York—Hospital—Hospital for Joint Diseases, 124th St. and Madison Ave., 3 story, brick, steel and stone addition, plain foundation, to G. Richard Davis, 30 East 42nd St. Noted July 6.

Pa., Altoona—High School—School Dist., 3 story and basement, 224 x 232 ft., 6th Ave. and 15th St., general contract to H. J. Conrath Co., Ariel Bldg., Erie, $551,714, heating and ventilating, to Sanitary Eng. Co., Anderson, Ind., $116,947. Noted Oct. 26.

Pa., Beaver Falls—High School—Bd. Educ., 3 story and basement, 68 x 126 ft., addition, 17th St., to Cook-Anderson Co., 5th Ave., Beaver. Archts. est. $175,000.

Pa., Phila.—Office—Insurance Co. of North America, 232 Walnut St., 20 story, rein.-con., brick and steel, plain foundation, on Parkway, to Stone & Webster, Inc., 147 Milk St., Boston, Mass. $4,000,000. Noted Sept. 28.

Pa., Pittsburgh — Apartment Hotel—Schenley Apartments Co., 3929 Forbes St., 10 story and basement, brick and tile, Forbes and 5th Sts., and Bigelow Blvd., to Mellon-Stuart Co., Oliver Bldg. Archts. est. $3,500,000. Noted Sept. 14.

Ga., Atlanta—Apartment—Real Estate Investment Corp., 4th Natl. Bank Bldg., 5 story and basement, 100 x 105 ft., rein.-con. and brick, rock foundation, to Adair & Senter, Forsyth and Walton Sts. $300,000 cost plus percentage basis.

Fla., Orlando—Bank and Office—Orlando State Bank and Trust Co., 9 story, brick, stone and steel, to A. Bentley & Sons Co., 201-31 Belmont Ave., Toledo, O. Noted Oct. 12.

Tenn., Memphis — Hotel — Tri States Hotel Co., general contract, 15 story, 358 room, brick, stone, tile, terra cotta and steel, North Main and Adams Sts., to J. Alexander Constr. Co., 388 North Front St. Archts. est. $1,500,000.

O., Athens—Gymnasium—Bd. Trustees Ohio University, 2 story and basement, 150 x 160 ft., brick, stone and concrete, on campus, to E. H. Latham Co., 60 East Broad St., Columbus, $219,358. Noted Oct. 26.

O., Cleveland — Apartment — Moreland Development Co., c/o J. Kirby, Discount Bldg., 6 story and basement, 88 x 140 ft., brick, steel, tile and concrete, plain foundation, Shaker Blvd., to Hunting Constr. Co., Discount Bldg. Archts. est. $300,000.

O., Cleveland — Apartments — Moreland Development Co., c/o J. Kirby, Discount Bldg., 4 and 10 story and basement, 38 x 800 ft., brick, steel and concrete, Shaker Blvd. and Coventry Rd., to Hunting Constr. Co., Discount Bldg. Archts. est. $3,000,000.

O. East Cleveland (Cleveland P. O.)—Store and Apartment — Euclid — Taylor Realty Co., c/o R. Ewing, 709 Williamson Bldg., Cleveland, 3 story and basement, 50 x 120 ft., brick, Euclid Ave. and Taylor Rd., here, to W. F. Thompson & Son Co., 5163 Euclid Ave., Cleveland. Archts. est. $150,000.

Mich., Detriot—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 120 x 130 ft. with wing, rein.-con., brick and steel, plain foundation, Clinton and Chene Sts., to F. H. Goddard, 2130 Franklin St. $726,193. Noted Oct. 19.

Wis., Madison—Church—Lutheran Memorial Congregation, 2 story, 150 x 200 ft., brick, rein.-con., stone and steel, plain foundation, University St., to Wisconsin Constr. Co., 102 South Orchard St. Archts. est. $300,000.

Buildings (Continued)

Wis., Milwaukee — Apartment — Shelbourne Apartment Co., c/o Herbst & Kuenzli, archts., 114 Grand Ave., 2 story and basement, 85 x 150 ft., brick and concrete, plain foundation, Marietta Ave., to S. Czaplewski & Sons, 878 2nd Ave. Archts. est. $150,000.

Wis., Milwaukee— Apartment — Beach Realty Co., c/o M. Tullgren & Sons, archts., 425 East Water St., two 3 story and basement, 55 x 72 ft., brick and concrete, plain foundation, Royal Pl., to Raulf Co., 428 Grand Ave. Archts. est. $150,000.

Wis., Milwaukee—Apartment—Vendome Realty Co., c/o Voelz & Siebert, archts., 373 Bway., 3 story and basement, 132 x 136 ft., brick and concrete, plain foundation, Grand Ave. and 32nd Sts., to Kroening Constr. Co., 39th Ave. and Mitchell St. Archts. est. $250,000. Noted July 13.

Wis., St. Francis—Auditorium—Sacred Heart Congregation, 2 story and basement, 48 x 115 ft., brick and concrete, plain foundation, to L. Unger, 626 Armour Ave., Cudahy. Archts. est. $150,000.

Wis., Superior—High School—Bd. Educ., 2 story and basement, 105 x 256 ft., rein.-con., brick and tile, to Lindhart Boyer Constr. Co., Eau Claire, $165,134. Noted Oct. 26.

Ia., Oakdale—Hospital—State Bd. Control, Capitol, Des Moines, general contract 3 story and basement, 45 x 142 ft., rein.-con., brick, tile and stone addition, here, to M. Mildenstein, Interstate Bldg., Cedar Rapids, $171,448.

Kan., Emporia—Hotel—Hotel Broadview Co., 5 story and basement, 130 x 150 ft., rein.-con. and brick, plain foundation, to Siedhoff Constr. Co., Hotel Broadview, Wichita, $200,000.

Mo., Columbia—Hospital—E. E. Brown, business mgr., 117 Jesse Bldg., general contract 3 story, brick, plain foundation, on campus, to Simon Constr. Co., Columbia, for University of Missouri. $112,964. Noted Oct. 5.

Tex., San Antonio—Market House—City let general contract 2 story and basement, 100 x 500 ft. (east wing), to C. Schoenfeld, 203 St. Marys St., $120,600. Archts. est. $200,000.

Colo., Denver — Apartment Houses — Fleisher Constr. Co., 608 Builders' Exch., Minneapolis, Minn., awarded contract for three 3 story and basement, 150 x 150 ft., rein.-con., brick and terra cotta, plain foundations, one on 10th St., one on 11th St. and other on Grant St. $400,000 each. Owner's names withheld.

Wash., Seattle — Office — Doctors & Dentists Building Co., Cobb Bldg., 15 story, terra cotta and brick, 5th and Olive Sts., to Great Northern Constr. Co., 4th and Vine Sts., Seattle. Archts. est. $1,000,000.

Calif., Sacramento—School—Bd. Educ., constructing Fremont School, brick and concrete, general contract to K. E. Parker Co., Clunie Bldg., San Francisco, $142,200. Noted June 22.

Federal Government Work

PROPOSED WORK

N. Y., New York—Dredging—U. S. Engineer, 2nd Dist., plans dredging in Raritan River.

N. Y., Tupper Lake—Electric Distribution, etc.—Spec. 4725—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans electric distribution and street lighting systems, at U. S. Veterans Hospital, here.

Pa., Phila.—Repairs—Spec. 4748—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to roof, here.

D. C., Wash.—Laboratory, etc.—Interior Dept., rejected bids opened Oct. 24 for laboratory and isolation buildings at St. Elizabeths Hospital for Insane, here. Noted Oct. 12.

Va., Norfolk—Dredging—U. S. Engineer plans dredging in Appomattox River.

W. Va., Huntington—Maneuver Boat—U. S. Engineer plans to purchase maneuver boat for Dam 30.

W. Va., Huntington—Power House—U. S. Engineer plans power house at Dam 30, Ohio River.

W. Va., Huntington—Steel Hull—U. S. Engineer, plans to purchase steel hull for quarter-boat.

Wash., Puget Sound—Dredging—Spec. 4708—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids dredging, here.

Calif., San Diego—Repairs—Spec. 4751—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to coaling wharf, here.

H. T., Pearl Harbor—Piers—Spec. 4687—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids two 335 ft., rein.-con. piers, 18 ft. wide, incl. dredging and filling. Noted July 13

BIDS DESIRED

Pa., Pittsburgh — Barges — Nov. 25, at Office U. S. Engineer, 3 steel deck barges; adv. this issue.

Va., Norfolk—Roadway—Nov. 21, by Treas. Dept., Wash., D. C., extension of roadway at U. S. Pub. Health Service Hospital, here; J. A. Wetmore, acting superv. archt.; adv. this issue.

Fla., Jacksonville—Dredging—Nov. 27 at office U. S. Engineer, dredging in Key West Harbor; adv. this issue.

Fla., Jacksonville—Lock and Dam—Nov. 25 at office U. S. Engineer, for lock and dam at Mass. Bluff, Oklawaha River.

Tenn., Memphis—Barges—Dec. 2, by Mississippi River Comn., 1st and 2nd Dist., Customhouse, for 6 steel barges; adv. this issue.

Tenn., Memphis—Boilers—Dec. 2, at office Mississippi River Comn., 1st and 2nd Dists., Customhouse, boilers for hydraulic grader; adv. this issue.

Tenn., Memphis—Machinery—Dec. 2 at Office Mississippi River Comn., 1st and 2nd Dists., Customhouse, furnishing turbines, pumps, feed-water heater, boiler-feed pumps and electric light plant; adv. this issue.

Wis., Milwaukee — Dredge Hull, etc. — Nov. 27, at Office U. S. Engineer, 1 dipper dredge hull and house; adv. this issue.

Mo., St. Louis—Earthwork—Nov. 23 at office Secretary Mississippi River Comn., 1311 International Life Bldg., earthwork in Sub-Dist. 1 of Drainage Union Dist. 1, Illinois; adv. this issue.

Calif., San Diego—Covering Railroad Track—Spec. 4737—Nov. 22 by Bureau Yards & Docks, Navy Dept., Wash., D. C., covering railroad tracks at Marine Barracks, here. Noted Oct. 12.

H. T., Honolulu—Dredging—Dec. 1 at office U. S. Engineer, dredging in Harbor, here, 1,250,000 cu.yd.

BIDS RECEIVED

N. C., Cape Hatteras (Hatteras P. O.)—Extension, etc.—Spec. 4706—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to barracks and painting, here, (1) work complete, from H. M. Lucas, 115 Bruce Pl., Portsmouth, Va., (1) $3,944 (2) $600 (3) $225; H. C. Clark & Son, Delaware City, Del. (1) $4,287 (2) $465 (3) $200; J. F. Wilson, Manteo, (1) $4,542 (60 days). Noted Oct. 19.

Mich., Adrian—Extension—Treas. Dept., Wash., D. C., extension to workroom and driveway, here, from Universal Constr. Co., Ft. Wayne, Ind., (street address not available) $9,240; G. A. Burley Co., Flint, $9,350; A. M. Lundeberg, St. Louis, Mo. (street address not available) $9,830. Noted Oct. 12.

BRIDGE—WASHINGTON

Following are lowest three bids opened Oct. 10, by C. H. Purcell, dist. engr., U. S. Bureau Pub. Rds., Portland, for Dosewallips River Bridge on Olympic Highway, Jefferson Co., (A) Ward & Ward, Inc., Tacoma; (B) Owens Bros., Port Angeles; (C) American Pile Driving Co., Everett. The unit bids were as follows:

	A	B	C
185 cu.yd. class "E" concrete	$20.00	$19.00	$17.00
138 cu.yd. class "A" concrete	25.00	36.00	27.00
110 cu.yd. class "B" concrete	25.00	16.00	14.00
40,000 lb. reinforcing steel	.07	.045	.065
353,000 lb. structural steel in place (painted)	.075	.0775	.074
4,000 lin.ft. piling	.50	.50	.50
2 timber bumpers	5.00	10.00	10.00
Clearing and grubbing (lump sum)	150.00	150.00	50.00
Extended totals	$41,355	$41,570	$42,153

SEWAGE DISPOSAL PLANT—FT. WORTH, TEX.

Following are lowest three and highest bid opened by city, Sept. 26, for constructing sewage disposal plant, (A) McKinzie Constr. Co., 302 W. Mulberry St., San Antonio, (awarded contract); (B) Kroeger & Kroeger, San Antonio; (C) H. W. Greenway & Co., 214 Hemphill St.; (D) Folwell & Ahlskog. The unit bids were as follows:

	A	B	C	D
Plant complete (lump sum)	$699,990.00	$696,000.00	$759,688.00	$898,000.00
100,000 cu.yd. class I excavation	0.55	0.47½	0.55	0.70
10,000 cu.yd. class II excavation	1.25	1.00	1.50	1.90
100 cu.yd. class I concrete	9.50	12.00	11.05	10.50
100 cu.yd. class II concrete	10.50	11.00	11.56	12.00
4,000 concrete forms	0.19	0.10	0.24	0.15
10,000 lb. reinforcing steel	0.05	0.85½	0.06½	0.05
1,000 extra man hours	0.50	0.40	0.56	1.25
1,000 extra team hours	1.00	1.00	0.86	1.50
10 tons class "A" pipe	80.00	75.00	73.00	120.00
Extended totals plant complete, plus excavation, and omitting two filters	$525,090	$527,500	$608,373	$825,000

TUNNEL—NEWARK, N. J.

Bids were opened by North Jersey District Water Supply Comn., Newark, Oct. 19, for constructing Great Notch Tunnel and approaches, Contr. No. 3, (A) Heyman & Goodman Co., 15 Exchange Pl., Jersey City (awarded contract); (B) T. A. Gillespie Co., 7 Dey St., New York City; (C) Mason & Hanger Co., 52 Vanderbilt Ave., New York City; (D) P. McGovern, Inc., 50 East 42 St., New York City; (E) F. Snare Corp., 8 West 40 St., New York City. The unit bids were as follows:

	A	B	C	D	E
100 cu.yd. earth excavation in tunnel	20.00	10.00	17.00	9.00	29.50
8,400 cu.yd. excavation trap-rock in tunnel	21.00	21.00	26.00	15.50	29.50
16,400 cu.yd. excavation sandstone in tunnel	18.00	18.00	21.00	15.50	29.50
25 cu.yd. enlargement of tunnel in rock	25.00	28.00	25.00	11.35	25.00
30 M.ft. b.m. timber in tunnel	100.00	150.00	115.00	100.00	130.00
10,900 cu.yd. concrete masonry in tunnel	12.00	9.00	15.00	17.00	17.30
100 cu.yd. excess concrete masonry, tunnel	5.00	5.00	5.00	5.00	5.00
100 cu.yd. dry packing	5.00	5.00	4.00	2.00	10.00
8,000 cu.yd. removal of top soil	1.10	3.25	2.50	1.25	3.50
13,000 cu.yd. earth excavation in open cut	1.00	1.80	2.50	9.00	3.50
11,500 cu.yd. rock excavation in open cut	3.00	6.24	5.50	11.00	7.00
23,100 cu.yd. refill and embankment	1.00	4.40	2.00	7.10	1.50
4,000 cu.yd. surface dressing and grassing	2.20	3.25	3.50	2.50	2.00
3,900 cu.yd. concrete masonry, aqueduct, open cut	12.00	12.00	18.00	17.00	16.00
500 cu.yd. concrete masonry, spec. structures	30.00	22.00	30.00	23.00	21.00
750 cu.yd. reinforced concrete	17.00	14.50	25.00	25.00	21.00
1,100 cu.ft. grout	9.00	6.00	12.00	11.80	17.00
10 cu.yd. brick masonry	35.00	35.00	50.00	25.25	30.00
27,000 bbl. cement	4.00	2.60	3.50	2.65	4.50
48,000 lb. steel for reinforcing concrete	.06	.06	.08	.06	.07
70,700 lb. cast iron, wrought iron and steel	.10	.08	.30	.10	.15
10 M.ft. b.m. timber and lumber not in tunnel	100.00	50.00	115.00	100.00	120.00
50 cu.yd. sand, gravel and broken stone	7.00	3.50	4.00	4.00	4.00
2,300 lin.ft. vitrified pipe	.70	1.00	1.50	.40	1.10
7,700 lin.ft. galvanizing	.06	.03	.08	.07	.05
1,800 cu.yd. drilling holes, rock or masonry	.50	.32	1.00	.25	1.00
Office building (lump sum)	4,000.00	2,700.00	5,000.00	7,800.00	6,000.00
Cleaning up (lump sum)	10,000.00	5,000.00	100.00	4,000.00	5,000.00
Extended totals	$918,297	$978,543	$1,158,441	$1,208,285	$1,386,025

Federal Government (Continued)

CONTRACTS AWARDED

Mass., Fall River — Extension — Treas. Dept., Wash., D. C., extension to workroom at U. S. Post Office, here to Pearce Bros., Inc., 220 West 42nd St., New York City. $9,350 (4 mos.) Noted Oct. 26.

R. I., Providence—Dredging—U. S. Engineer, dredging in Branford Harbor, Conn., to J. S. Packard Dredging Co., 1054 Turks Head Bldg., $3,450.

N. Y., Chelsea—Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment of U. S. Veterans Hospital, here, to W. G. Cornell Co., 19 Patterson St., N. E., Wash., D. C., $68,557. Noted Sept. 28.

Ala., Tuskegee — Telephone System — Treas. Dept., Wash., D. C., automatic telephone in U. S. Veterans Hospital, here, to Michaels & Co., Inc., Norfolk, Va., $8,565 (118 days). Noted Sept. 14.

Tenn., Nashville—Dump Scows—U. S. Engineer, 3 steel dump scows, to Nashville Bridge Co., Shelby Ave. $16,400 each. Noted Sept. 21.

Montana—Road—U. S. Bureau Pub. Rds., grading and surfacing 6.8 mi. Belton-Nyack Sect., Belton-Java Rd., 52,000 cu.yd. earth and 89,250 cu.yd. rock excav., 12,000 cu.yd. crushed rock surfacing, to Siems & Carlson, 412 Realty Bldg., Spokane, Wash., $179,831.

Idaho—Road—Dept. Agriculture, surfacing 7.5 mi. Lolo Pass Rd., gravel and broken stone, to Siems-Carlson, Realty Bldg., Spokane, Wash., $161,505.

Miscellaneous

PROPOSED WORK

Loading Platform, etc.—Boston, Mass.—Boston Elevated R.R. Co., 108 Massachusetts Ave., having preliminary plans prepared underground loading and unloading platform at Park Station; also underground passageway on Tremont St. $250,000. Engineer not announced.

Grandstand—Danbury, Conn.—Danbury Agricultural Society, 291 Main St., plans 2 tier, rein.-con. and steel, at Fair Grounds. $25,000. Engineer not selected.

Athletic Field — Alfred, N. Y. — See "Buildings."

Transmission Line—Norwich, N. Y.—Norwich Gas & Electric Co., plans 44,000 volt high power electric transmission line. To exceed $25,000.

Elimination of Grade Crossings—Pennsylvania — State Hy. Dept., Harrisburg, plans elimination of 6 grade crossings in connection with construction of East Liverpool-Midland Beaver Rd., Route 243, as follows:—one of the Cleveland & Pittsburgh Ry. Co. at Vanport, 2 of Ohio Valley Scenic Ry. at Industry, 2 at Cooks Ferry and one at Barclays Crossings. $300,000.

Fuel Bins — Phila., Pa. — United Gas Impvt. Co., Broad and Arch Sts., plans 2 story, 34 x 110 ft. rein.-con., brick and steel fuel bins, conveyor system, etc., Tioga and Canton Sts. $115,000. Private plans.

Eliminating Grade Crossings — Wilkes-Barre, Pa.—City and Delaware & Hudson R.R. plan eliminating grade crossings. City's share incl. crossings at Throop, Parker, Depot, East Market and Green Ridge Sts., $400,000. W. A. Shunk, city engr.

Underpasses, etc.—North Carolina—State Hy. Comn., Raleigh, soon takes bids grading, draining and constructing substructures for underpasses under Southern Ry. at Gibsonville and Four Mile Siding, Project 532, Guilford Co. Southern Ry. will build superstructures, $33,400. Foregoing estimate does not include superstructure. C. M. Upham, Raleigh, state highway engr. J. B. Akers, Charlotte, ch. engr. Southern Ry.

Golf Course, etc.—Canton, O.—Brookside Country Club, c/o T. H. Harris, pres., 104 Market St., having plans prepared for golf course, and alloting 50 acres for home sites, incl. grading, laying sidewalks, sewers and mains, also constructing 2 story frame clubhouse. $200,000. D. Ross, Pinehurst, N. C., engr. W. Pitkin, 4500 Euclid Ave., Cleveland, engr. for landscaping and alloting.

Transmission Lines—Cleveland, O.—See "Industrial Works."

White Way Lighting System—Cleveland, O. — Plans white way lighting system in Lorain Ave. from West 58th to West 117th Sts., Clark Ave. from West 25th to West 44th Sts., Clark Ave. from West 14th to West 25th Sts., Bway. from East 34th St. to Miles Ave., Lorain Ave. from West Blvd. to West 106th St., Prospect Ave. from East 14th to East 55th Sts. $150,000. G. Beckwith, City Hall, engr.

Elimination of Grade Crossings—Columbus, O.—Norfolk & Western R. R., Roanoke, Va., and city soon receives bids eliminating grade crossings, elevating tracks to provide for arched openings on Main, Broad and Long Sts., Livingston, Fair, Clifton and Mt. Vernon Aves., also a ninth opening will be made at Franklin Park to be used as driveway, here. To exceed $2,000,000. R. H. Simpson, City Hall, engr. J. E. Crawford, Roanoke, ch. engr.

Transmission Line—Terre Haute, Ind.—See "Industrial Works."

Golf Course—Benton Harbor, Mich.—See "Buildings."

Transmission Line—Fond du Lac, Wis.—Eastern Wisconsin Electric Co., 428 North 8th St., Sheboygan, having plans prepared 66,000 voltage transmission line from here to Vandyne. $25,000. Private plans.

Steam Heating System—La Crosse, Wis.—Hunts Hotel Co., c/o E. D. Hunt, mgr., having plans prepared new steam heating system and 2 smokeless portable boilers. $25,000. O. J. Sorenson, 216 Main St., engr.

Water Meters — Sheboygan, Wis. — City plans installing 6,000 water meters. $50,000-$60,000. J. Steimle, clk.

Transmission Line—Stratford, Wis.—Stratford Light and Power Co. having plans prepared transmission line from here to Wausau. $25,000. H. Langer, pres. Private plans.

Ornamental Street Lighting—Waukesha, Wis.—Making plans ornamental street lighting system in business district. $25,000. A. P. Kurantz, City Hall, Kenosha, engr.

Dump Trucks — Big Springs, Tex. — F. C. Lancton in market for 10 dump trucks.

Electrical Distribution System — Cement, Okla. — See "Waterworks."

Hydro-Electric Power System, etc.—Deer Park, Wash.—Mt. Spokane Power Co. sold $100,000 bonds to enlarge present hydro-electric power system, incl. raising dam, new flume, wood pipe line, new dam, canals, machinery, generators, housing transformer wheels, transmission lines, tanks, etc. Nixon-Kimmel Co., S 169 Wall St., engr.

Switchboard Extensions, etc.—Stratford, Ont.—Bell Telephone Co. preparing plans extending switchboard, rearranging and increasing capacity of cables, laying conduits in several streets. $50,000. Plans to do large portion of work by day labor. J. J. Griffin, mgr.

BIDS DESIRED

Shaft—Brooklyn, N. Y.—Nov. 24, by Bd. Estimate & Apportionment, City Hall, New York, for Shore Rd. shaft, here, for freight and passenger railroad tunnel in Boros of Brooklyn and Richmond, under New York Bay, New York City. J. F. Hylan, mayor, chn.; adv. this issue.

Column Foundations—New York, N. Y.—Nov. 10, by Transit Comn., 49 Lafayette St., column foundations for part of Rapid Transit R.R., Flushing Route. G. McAneny, chn.

Concreting Voids—New York, N. Y.—Nov. 9, by Transit Comn., 49 Lafayette St., concreting voids under platform of 8th St. Sta., Route 5, Sect. 4, Manhattan Boro, Agreement "CG." G. McAneny, chn.

Lumber—Ocean City, N. J.—Nov. 21, by State Hy. Dept., Trenton, furnishing 487,400 ft. lumber for use on Ocean-City-Somers Point Bridge, delivery made f.o.b. cars at railroad siding here. A. L. Grover, clk.; adv. this issue.

Electrical Work, Plumbing, Heating, etc.—Johnstown, Pa.—Nov. 27, by C. H. Meyer, secy. Bd. Educ., 601 Swank Bldg., electrical work, plumbing, heating and ventilating for Cochran School, 8th Ward. $130,000. J. E. Adams, Nemo Bldg., archt. Noted Oct. 19 under "Buildings."

Heating and Ventilating System—Wilmore, Pa.—Nov. 6, by C. S. Kniss, secy. School Dist. Summerhill Twp., Beaverdale, heating and ventilating system for Wilmore School. $85,000. W. R. Myton, 1204 1st Natl. Bank Bldg., Johnstown, archt.

Steel—Cleveland, O.—Nov. 9, furnishing and erecting 1,200 ton structural steel for Fairmount Pumping Station. A. V. Boggles, City Hall, engr.

Grade Separation—Milwaukee, Wis.—Nov. 6, by R. E. Stoelting, comr. Public Works, grade separation of 8th Ave. from Cleveland to Montana Aves., Midland Ave. from Cleveland to about 240 ft. south of Montana Ave., and 300 ft. of approach west and west of Midland Ave. on Montana St., incl. 17,000 cu.yd. fill to subgrade of pavement, 3,440 cu.yd. excav. for retaining walls, 1,250 cu.yd. rein.-con. retaining walls, etc. G. F. Staal, City Hall, engr.

BIDS RECEIVED

Broken Trap Rock Stone, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro. 3rd and Tremont Aves., opened bids Oct. 26 furnishing and delivering 4,000 cu.yd. broken trap rock stone and 2,000 cu.yd. broken trap rock screening, from New Haven Trap Rock Co., North Branford, Conn., $2.98, $2.98, $17,800. Noted Oct. 26.

Rip Rap, etc.—New York, N. Y.—Bd. Purch. Municipal Bldg., opened bids Oct. 25, furnishing and delivering rip rap, from O'Brien Bros., 80 South St., $5,000; structural steel, from Bethlehem Steel Bridge Co., 25 Bway., $48,750, English Constr. Co., $48,750, Amer. Bridge Co., 30 Church St., $57,250; oak, pine spruce lumber, from Forest Box & Lumber, 320 Oakland St., Brooklyn, $293.77, Stewart Lumber Co., Metropolitan and Woodward Aves., Brooklyn, $366.44, Robertson Lumber, $411.18, Cooney Eckstein & Co., 302 Bway., $5,199.36, A. R. Sax Lumber, 143 West 33rd St., $26,677, J. A. Maloney & Co., 170 Bway., $27,574.82, E. R. Mill & Lumber, $28,034.45, G. Elias & Bros., 22 East 17th St., $492.71. Noted Oct. 19.

Wire Mesh Fences—New York, N. Y.—Park Bd., Municipal Bldg., opened bids Oct. 26, furnishing and erecting wire mesh fences around certain lawns in various city parks in Manhattan Boro, from Riverdale Constr. Co., 1440 Bway., $79,340; Vulcan Rail & Constr. Co., Maspeth, $87,640; Page Steel & Wire Co., Grand Central Terminal, $106,823. Noted Oct. 19.

Steam Turbine and Accessories—New Orleans, La.—Sewerage & Water Bd., 538 Carondelet St., opened bids Oct. 10, for 6,000 kw. steam turbine and accessories, from General Electric Co., River Rd., Schenectady, N. Y., $140,837; Allis-Chalmers Mfg. Co., West Allis, Milwaukee, Wis., $162,455. Noted Aug. 17.

Clearing Right of Way—Seattle, Wash.—Opened bids Oct. 20, clearing right of way for transmission line on Sect. 3, Skagit River Power Development, from Culliton Bros., 5248 17th Ave. N. E., Proposal A $109,750, Proposal B $120,695; Schacht Constr. Co., Thompson Bldg., Proposal A $115,000, Proposal B $122,120.

CONTRACTS AWARDED

Asphalt Wearing Surface Sand, etc. — New York, N. Y. — H. Bruckner, pres. Bronx Boro, Tremont and 3rd Aves., furnishing and delivering 3,500 cu.yd. asphalt wearing surface sand, to Z. Mahoney, 577 46th St., Brooklyn, $3,900; 3,000 cu.yd. binder stone, to Calvin Tompkins, 30 Church St., $5,220; 350 ton asphalt cement to Warner-Quinlan Co., 79 Wall St., $6,556; 200 ton limestone dust, to E. Meyer Co., 25 Church St., $1,240. Noted Oct. 12.

Foundation, etc.—New York, N. Y. — Transit Comn., 49 Lafayette St., foundation for 3rd addition to shops at Lenox Ave. and 148th St. Yard, to Rosenthal Eng. & Contg. Co., 226 Jackson St., Brooklyn, $295,000; erecting structural steel for above, to Bethlehem Steel Bridge Corp., 111 Bway., $92.60. Noted Oct. 26.

Transmission Line—Atlanta, Ga.—Georgia Ry. & Power Co., Electric and Gas Bldg., will build 60 mi. transmission line from Lindale through Chickamauga to Chattanooga, Tenn., 30,000 kw., 110,000 voltage, by day labor. $500,000. W. P. Hammond, c/o owner, asst. engr.

Heating and Ventilating System, etc.—Youngstown, O.—Bd. Educ. heating and ventilating system in new Princeton School addition, to W. J. Scholl Co., East Commerce St., $70,000; plumbing to Knox Plumbing Co., Youngstown (street address not available), $33,655.

Dock—Detroit, Mich.—Recreation Dept., 504 Elmwood Ave., and Pub. Lighting Comn., East Atwater St., 735 ft. rein.-con. dock on wood piling, 17 ft. wide, 5 ft. high, etc., to Greiling Bros., 100 Walnut Blk., Green Bay, Wis., $79,940. Noted Sept. 21.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Nov. 17.

Road Work

Bernardsville, N. J.

Notice is hereby given that sealed bids will be received by the Township Committee of the Township of Bernards in the County of Somerset for the construction of the following:

Claremont-Post-Kunhardt (Mine Mount) Road, Section First—Estimated amount of excavation 1180 cubic yards, macadam foundation, 3022.2 square yards, bituminous binder 7274.65 gallons, dustless screenings 145.493 tons, bituminous surface 14549.3 square yards, cross drains 35 feet of 18-inch C. I. P. and 50 feet of 12-inch C. I. P.

Bids will be received at the office of the Township Clerk in the Township Office in Bernardsville, New Jersey, on

FRIDAY, NOVEMBER 17TH, 1922,

at seven o'clock P. M., and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the Township Clerk of Bernards Township and the office of the Township Engineer, Col. F. S. Tainter, at Bernardsville, N. J., and may be inspected by prospective bidders. Plans will be furnished on deposit of Ten ($10.00) dollars upon application to the said Clerk or Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, same to be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and the name and section of the road on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the Township of Bernards for not less than $1,000, and shall be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application. Bids not enclosed as above set forth will not be opened. The Township Committee reserves the right to reject any and all bids. Each bidder must be prepared to produce a sufficient bond approved by the Township Committee in a sum in 100 per cent of the contract as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment property filled out.

By order of the Township Committee of the Township of Bernards.

FRANK P. BOWMAN,
Township Clerk.

Dated Bernardsville, N. J.,
October 24, 1922.

Bids: Nov. 29.

Filtration Plant and Reservoir

San Juan, Porto Rico.

Sealed proposals for the furnishing of all labor and material for the construction of a 8,000,000 gals. filtration plant and a 10,500,000 gals. filtered water concrete reservoir for the City of San Juan will be received in the office of the Commissioner of Public Service until November 29, 1922, at 10 A.M.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

OFFICIAL PROPOSALS

Bids: Nov. 27.

Hard Surfaced Road Project

Washington, N. C.

Sealed proposals will be received by the Beaufort County Road Commission at its office in Washington, N. C. until 2 p.m. November 27th, 1922 for the Construction of two sections of road on the Chocowinity-Aurora Road. One section starting at Chocowinity and extending 4.8 miles towards Aurora; one section at Edwards beisg 2 miles in length.

Bids are desired on asphalt and concrete paving 18 feet wide. The total estimated approximate quantities are; 71,800 sq.yds. of sheet asphalt, asphalt concrete or concrete paving.

452 sq.yds. gravel or water bound macadam paving 34,895 cu.yds. excavation.

3 culverts, containing 54 cu.yds. concrete and 4250 lbs. steel.

2 bridges, containing 706 cu.yds. concrete; 69,240 lbs. steel & 3200 feet of piling.

210 ft. 18 in. pipe.
30 ft. 30 in. pipe.
150 ft. 15 in. pipe.

Proposals must be marked "Proposal for Chocowinity-Aurora Road."

All bids must be upon blank forms provided in the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check for $10,000, or satisfactory Bidder's Bond as evidence of good faith. Bidders bidding on any part of the work separately must accompany their bid by a certified check or satisfactory bidder's bond for an amount equal to 5% of the amount of their bid.

Plans and specifications will be on file at the office of the Commission, in Washington, N. C. and copies of the plans, specifications, form of proposal, etc. will be mailed upon the applicant making a deposit of $5.00 one half of which will be returned upon the return of the plans in good condition as stated in the specifications.

The right is reserved to reject any or all bids.

F. C. Kugler, Chairman.
J. D. BULLUCK, Secretary.
H. W. RANKIN, Engineer.

Bids: Dec. 11.

Labor-Material Percentage Contract

New Orleans, La.

Sealed proposals will be received at the Sewerage and Water Board, Room 401, No. 526 Carondelet Street, New Orleans, La., up to 12 o'clock noon of Monday, December 11th, 1922, on Labor-Material Percentage Contract for year 1923.

Specifications and blank forms of proposal may be obtained at the office of the Board.

The right is reserved to reject any or all bids.

October 12th, 1922.

A. G. MOFFAT,
Secretary.

GEO. G. EARL,
General Superintendent.

Bids: Nov. 14.

Automatic Sprinkler System

Aberdeen, Wash.

The Port of Grays Harbor, Aberdeen, Wash., will receive bids until 10 o'clock A.M., Tuesday, November 14th, 1922, for furnishing and installing an automatic sprinkler system in the Port Transit Shed. Approximately 366 heads required.

Further information on application.

FRANK H. LAMB, President,
J. A. VANCE, Secretary.

OFFICIAL PROPOSALS

Bids: Nov. 8.

County Road Work

Atlantic City, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Atlantic, N. J., at 12 o'clock noon on November 8th, 1922, during a regular meeting of the Board at its meeting room in the Guarantee Trust Building, Atlantic City, N. J., for the reconstruction of Section 6 of Route No. 14 in Hamilton Township, County of Atlantic and State of New Jersey, with a Warrenite-Bitulithic pavement on a six inch (6") 1-3-5 concrete base. The estimated amount of pavement and of base is 8,123.51 square yards, together with excavation, extra embankment, gravel shoulders, drainage provisions and various other details required in the work. The aforesaid bids will be opened and read in public at the time and place stated for receiving them.

Plans, specifications and forms of bid, certificate of surety, contract and bond, as prepared by A. H. Nelson, County Engineer and approved by the State Highway Commission, have been filed at the office of the County Engineer at 636 Guarantee Trust Bldg., Atlantic City, N. J., and at the office of the State Highway Commission in Broad St. Bank Bldg., Trenton, N. J., at which places they may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of said plans and specifications by the County Engineer on consideration of a deposit of $10.00 which deposit will be refunded if the plans and specifications are returned to him in good condition by noon of November 8th, 1922. Each bid must be made on the standard proposal form, in the manner designated therein and required by the specifications, must be enclosed in a sealed envelope bearing on the outside the name and address of the bidder and the name of the road and the envelope must be addressed to the Board of Chosen Freeholders, Atlantic County, N. J. Each bid must be accompanied by a certificate of surety and by a certified check in an amount not less than 10% of the bid and must be delivered at the place and on the hour above stated for receiving bids. A contract will be awarded, if awarded at all, subject to the approval of the State Highway Commission ofr New Jersey and also subject to the sale and delivery of bonds, which will be issued for the purpose of paying for the proposed work. The Board reserves the right to reject any or all bids.

By order of the Board of Chosen Freeholders of the County of Atlantic, N. J.

F. W. WILLETTS,
Clerk.

Bids: Dec. 1.

Cast Iron Pipe and Castings

San Juan, Porto Rico.

Sealed proposals for the furnishing of about 20,020 tons of cast iron pipe and of 250 tons of special castings, or its equivalent in steel pipe and specials, delivered at San Juan, Porto Rico, for the City of San Juan, will be received in the office of the Commissioner of Public Service until December 1, 1922, at 10 a.m.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

OFFICIAL PROPOSALS

Bids: Nov. 24.

Superstructures, Chimney, Crane and Filter Plant

Memphis, Tenn.

Sealed proposals, addressed to the Board of Commissioners of the Memphis Artesian Water Department, and endorsed with the bidder's name and designation of the work bid upon will be received at the office of the Memphis Artesian Water Department eat Memphis, Ten., until 12 o'clock noon of the 24th day of November, 1922, and then publicly opened and read, for the construction at Memphis, Tenn., of building superstructures for new water supply and for the furnishing and installing of machinery, the work being divided into contracts as follows:

Contract 7. Superstructures, chimney and filter equipment.

Contract 8. Coal and ash handling system.

Contract 9. Three 9 m.g.d. low-head, centrifugal pumps direct conected to reaction water-turbines.

Contract 10. Two 100 k.w. direct-connected unaflow engine generator sets and switchboard.

Bids may be made upon any or all contracts, but a bid upon any contract must include all work under that contract.

Contract 7 includes the brick walls, stone trim, steel frame and roof of the pumping station, approximately 125 feet by 225 feet in plan and 50 feet high; the walls and stone trim of the iron removal plant approximately 90 feet by 160 feet in plan and 25 feet high; the superstructure of the aerator house; tile and cement floor finish; steel sash doors; roofing; plumbing, heating and lighting; a 15 ton 120 foot span traveling crane; a 9 foot by 225 foot radial brick chimney; sand, gravel, pipe laterals and operating tables for eight filters; two dry feed machines; and various incidental work.

Copies of the bidding blanks, bonds, contracts, specifications and drawings may be obtained from the office of the engineers, Fuller & McClintock, 421 Produce Exchange Bldg., Kansas City, Mo., or may be inspected at any of the following offices:

Memphis Artesian Water Department, Memphis, Tenn.

Fuller & McClintock, 170 Broadway, New York City.

Fuller & McClintock, 319 Summit-Cherry Bldg., Toledo, Ohio.

A charge of $20.00 wil be made for each set of specifications which charge will be refunded provided the specifications are returned within 30 days after bids are received.

The Water Commission reserves the right to reject any or all bids, to waive any informalities in the bids received, and to accept any bid or bids which they deem most favorable to the interests of the City of Memphis.

By order of the Board of Commissioners of the Memphis Artesian Water Department.

Bids: Nov. 28.

Highway Bridges

Little Rock, Ark.

Sealed bids will be received until Ten A.M. of Tuesday, November 28th, 1922 at the offices of the Board of Commissioners of Pulaski Road Improvement District Number Ten, for the construction of four bridge structures on Section Three.

The approximate quantities are as follows:

Structural Steel	375,000 lbs.
Reinforcing Steel	96,000 lbs.
Concrete	1,050 Cu. Yds.

All proposals or bids must be accompanied by a certified check drawn on a responsible bank or trust company in the city of Little Rock.

Certified check must be made payable to H. S. Turner, Secretary of Pulaski Road Improvement District Number Ten, for a sum not less than five per cent of the aggregate amount of the proposal.

Specifications and additional information may be secured from the Engineer.

The successful bidder will be required to furnish satisfactory surety construction bond in a sum equaling the amounts of the contracts awarded him.

The right is reserved to reject any, or all, proposals submitted and to waive informalities.

ROY L. THOMPSON, Chairman.
H. S. TURNER, Secretary.
216 Gazette Building,
Little Rock, Ark.
D. A. MacCREA, Chief Engineer.

Bids: Nov. 21.

Lumber

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Furnishing of 487,400 feet B.M. of lumber for use on the Ocean City-Somers Point Bridge; delivery to be made f.o.b. cars at the railroad siding in Ocean City.

Bids will be received at the office of the State Highway Commission, Broad Street Bank Bldg., Trenton, New Jersey, on Tuesday, November 21st, 1922, at 11:00 a.m., and opened and read immediately thereafter.

Specifications for the lumber and conditions governing bids may be obtained upon application to Mr. A. W. Muir, Superintendent of Maintenance, State Highway Department, Broad Street Bank Bldg., Trenton, New Jersey. Bids must be made upon the standard proposal form in the manner designated therein and as required by the specifications and conditions governing bids, same to be enclosed in sealed special addressed envelopes which will be furnished with the proposal form bearing the name and address of the bidder and the name of the bridge on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000 and be delivered at the above place on or before the hour named.

The State Highway Commission reserves the right to reject any or all bids not in accordance with the conditions governing said bids.

By order of the State Highway Commission.

A. LEE GROVER, Chief Clerk.

Bids: Nov. 20.

Cast Iron Water Pipe

Springfield, Mass.

Sealed proposals will be received by the Board of Water Commissioners of Springfield, Mass., at its office in the Municipal Building, on or before 11 a.m., Monday, November 20, 1922, for the furnishing of cast iron water pipe and special castings.

The proposal shall state price per ton of 2,000 lbs., F.o.b. Armory Station, Springfield, Mass., for each size of pipe and each size and kind of special casting, in accordance with the following schedule.

200	lengths	Class	E	6"	cast iron pipe
2,000	"	"	E	8"	" "
250	"	"	E	10"	" "
100	"	"	E	12"	" "
10	8" Crosses, B. B., Class H				
5	10" x 8" Crosses, B. B., Class H				
6	6" x 4" Reducers, Class H., B. & S.				
50	6" Sleeves, Class H				
50	8" Sleeves, Class H				
10	10" Sleeves, Class H				
15	8" Tees, B. B., Class H				
10	10" x 8" Tees, B. B., Class H				
1	12" Y, B. & S., Class H				

All pipe and special castings to be manufactured in accordance with N. E. W. W. A. specifications.

Proposal shall be in a sealed envelope marked "Proposal for Cast Iron Pipe." It shall also contain a statement as to the dates and rate of delivery for the pipe and special castings.

The right is reserved to eliminate any size from the proposal or to accept the proposal for any sizes without the acceptance of the entire bid. The right is also reserved to reject any or all bids or to accept any bid or any portion of any bid which it may be deemed to the interest of the City of Springfield so to do.

H. M. KING, Superintendent.
Springfield, Mass.
October 27, 1922.

Bids: Nov. 23.

Street Paving

Wilmington, N. C.

Sealed proposals for the construction of approximately 75,000 sq.yds. of hard surface street paving will be received at the office of the Commissioner of Public Works, Wilmington, N. C., until 11 a.m. on the 23rd day of November, 1922.

A certified check to the amount of 5% is required with each bid and the right is reserved to reject any or all proposals.

Plans and specifications may be obtained from the Carolina Engineering Co., 412 Southern Bldg., Wilmington, N. C., G. H. Bishop, Consulting Engineer.

By order of the Board of Commissioners.
R. C. CANTWELL,
Commissioner of Public Works.

Bids: Nov. 17.

Road Work

Tampa, Fla.

Sealed proposals will be received by the Board of County Commissioners of Hillsborough County, Florida, until 11:00 a.m. on November 17th, 1922, for the construction of approximately one hundred and sixty (160) miles of nine (9) and fifteen (15) foot roads, to be paved with either brick, asphalt, block, sheet asphalt, asphaltic concrete, cement concrete, or bituminous macadam, as set forth in the specifications.

Specifications may be obtained on application from the Clerk of the Circuit Court of Hillsborough County, at Tampa, Florida. A deposit of $5.00 will be required for specifications.

A certified check or bidder's bond executed by a reputable bonding company authorized to do business in the State of Florida, in the sum of Five (5%) per cent of bid must be attached up to a bid of Five Hundred Thousand ($500,000.00) Dollars. Any contractor bidding on more than amount of work up to and including the total project may make a check or bidder's bond for only Twenty-Five Thousand ($25,000.00) Dollars, payable to Charles T. Friend, Chairman of the Board of County Commissioners. A bond must be submitted with each proposal.

Bidders may submit proposals on each road separately or on the combined project as a whole, it being understood, however, that the Board reserves the right to award this work as they deem best, either separately or as a whole.

The right is reserved to select the type of curbing and paving for each road and to reject any or all bids.

Bids will also be received for road building materials; such materials to conform to the requirements as set forth in the construction specifications. A certified check or bidder's bond must accompany each proposal for materials, payable to Charles T. Friend, Chairman of the Board of County Commissioners, for the sum of One Thousand ($1,000.00) Dollars. The right is reserved to reject any and all bids. Address all bids to C. T. Friend, Chairman Board of County Commissioners, Tampa, Florida.

CHARLES T. FRIEND,
Chairman Board of County Commissioners.
Date, October 13th, 1922.

Bids: Nov. 8.

Road Reconstruction

Atlantic City, N. J.

Sealed bids will be received by the Board of Chosen Freeholders of Atlantic County, N. J., at 12 o'clock noon on Nov. 8th, 1922, during a regular meeting of said board at the Freeholders' Meeting Room in the Guarantee Trust Bldg., Atlantic City, N. J., for the reconstruction of Cedar and Lands Avenues from Mays Landing-Downstown Road in Richland to the line between the Counties of Cumberland and Atlantic, with a Warrenite-Bitulithic pavement on a six inch (6") 1-3-5 concrete base; estimated amount of surface pavement and concrete base required is 44,663 sq.yds. together with gravel shoulders, excavation and embankment, drainage provisions, guard rail and other items; said bids to be opened and read in public at the aforesaid time and place.

Drawings, specifications and form of bid, certificate of surety, contract and bond, covering proposed work, are on file in the Office of the County Engineer at 636 Guarantee Trust Bldg., Atlantic City, N. J., where they may be inspected and a prospective bidder may secure a copy of the specifications and blueprints of the plans upon the deposit of $10, which deposit will be refunded provided the plans and specifications are returned to the County Engineer's office in good condition by noon on Nov. 8th, 1922. Each bid must be made on the standard proposal form in the manner required by the specifications and must be accompanied by a certified check, or cash, in the amount of Ten (10%) per cent of the bid except that the amount need not exceed $20,000.

A contract will be awarded, if awarded at all, within one month of the date of receiving bids and such award will be made subject to the sale and delivery of bonds to be issued for the purpose of financing the reconstruction. The right is reserved to reject any or all bids.

By order of the Board of Chosen Freeholders of Atlantic County, N. J.

F. W. WILLETTS,
Clerk.

OFFICIAL PROPOSALS

Bids: Nov. 14.

State Road Work

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia at its offices in Charleston, West Virginia, until ten o'clock a.m. on the 14th day of November, 1922, and said proposals will be opened and read immediately thereafter at the Kanawha County Court House, Charleston, W. Va., for the construction of the following sections of State Road:

Project 3151—Boone County—4 miles of the Ramage-Madison Road for grading and draining. Certified check for $2,400.00.

Project 3152—Boone County—1.7 miles of the Racine-Peytona Road for grading and draining. Certified check for $1,300.00.

Project 123—Raleigh County—4.2 miles of the Shady Springs-Flat Top Road for grading, draining and paving with Bituminous Macadam. Certified check for $7,000.00.

Project 3051—Pocahontas County—4.23 miles of the Buckeye-Millpoint Road for grading and draining. Certified check for $1,600.00.

Project 3047—Nicholas County—5.7 miles of the Summersville-Gilboa Road for grading and draining. Certified check for $2,500.00.

Project 3054—Summers County—4.0 miles, End Project 1067 to the Raleigh County Line, for grading and draining. Certified check for $2,600.00.

Project 3170—Clay County—4.6 miles of the Maysel towards King Shoals Road for grading and draining. Certified check for $3,200.00.

Project 3057—Mason County—9.0 miles of the Pt. Pleasant-Clifton Road for grading, draining and gravel surfacing. Certified check for $3,800.00.

Project 3138—Mason County—5.5 miles of the Henderson-Couch Road for grading, draining and gravel surfacing. Certified check for $3,500.00.

Project 3060-A—Mercer County—0.6 miles of the Simmons-Freeman Road for grading, draining and paving with Bituminous Macadam. Certified check for $900.00.

Project 3061—Wayne County—9.0 miles of the Echo-Fleming Road for grading and draining. Certified check for $6,000.00.

Project 3062—Wyoming County—3.63 miles of the Iroquois-Amigo Road for grading and draining. Certified check for $3,500.00.

Project 3133—Raleigh County—0.54 mile of the Iroquois-Amigo Road for grading and draining. Certified check for $560.00.

(Note: Projects 3062 and 3133 will be let in one contract.)

Project 3076-B—Calhoun County—11.0 miles of the Grantsville-Arnoldsburg Road, for grading and draining. Certified check for $3,600.00.

Project 3067—Wirt County—12.0 miles of the Elizabeth-Spencer Road for grading and draining. Certified check for $3,600.00.

Project 3021-B—Webster County—11.0 miles Pt. Mountain Randolph County Line Road for grading and draining. Certified check for $5,000.00.

Project 3111—Gilmer County—10.0 miles of the Glenville-Normantown Road for grading and draining. Certified check for $8,000.00.

Project 3154—Upshur County—6.0 miles of the Buckhannon-Randolph Road for grading and draining. Certified check for $2,500.00.

Project 3149—Grant County—2.4 miles of the Petersburg-Hardy County Line Road for grading, draining and paving with Waterbound Macadam. Certified check for $2,000.00.

Project 3012—Hampshire County—8.6 miles of the Junction to Hardy County Line Road for grading and draining. Certified check for $5,000.00.

Project 3107—Mineral County—7.6 miles of the Ridgeley-Alaska Road for grading, draining and gravel surfacing. Certified check for $3,000.00.

Project 3028—Berkeley County—4.24 miles of the Martinsburg-Hedgesville Road for grading, draining and paving with Waterbound Macadam. Certified check for $3,500.00.

Proposals will be received only upon State Standard forms in accordance with plan, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates may be obtained from the office of the Division Engineer in whose territory the proposed construction is located, or from the office of the State Road Commission at Charleston, W. Va.

Each proposal must be accompanied by a certified check for the amount noted.

The right is reserved to reject any and all proposals.

State Road Commission of W. Va.
E. B. CARSKADON, Secretary.

OFFICIAL PROPOSALS

Bids: Nov. 14.

County Court House Additions and Alterations

Canandaigua, N. Y.

Public notice is hereby given that the Court House Committee of the Board of Supervisors of Ontario County will meet at the Supervisors' Rooms in the Court House in the city of Canandaigua, N. Y., on November 14, 1922, at 10 o'clock a.m., and then and there will receive and open sealed proposals for making the alterations and additions to the present Ontario County Court House at Canandaigua, N. Y., according to the plans and specifications prepared by J. Foster Warner, Architect, No. 1036 Granite Bldg., Rochester, N. Y.

Bids will be received for the work under three separate contracts as follows:

1. For general construction, which includes all mason work, carpenter work, painting and finishing, marble and tile, electric elevator and electric work.
2. For plumbing.
3. For heating and ventilating apparatus.

No bid will be considered for work under subdivision 1 above set forth unless accompanied by a certified check for $700, payable to the order of Homer E. Snyder, Treasurer of Ontario County.

No bid will be considered for the work under subdivision 2 above set forth, unless accompanied by a check for $150, payable to the order of Homer E. Snyder, Treasurer of Ontario County.

No bid will be considered for the work under subdivision 3 above set forth, unless accompanied by a certified check for $150, payable to the order of Homer E. Snyder, Treasurer of Ontario County.

Proposals must be submitted enclosed in an envelope, securely sealed and endorsed "Proposals for Ontario County Court House," and addressed to Fred A. Russell, Chairman of Court House Committee, and delivered at the Office of the Clerk of the Board of Supervisors of Ontario County at the Court House in the City of Canandaigua, N. Y., on or before November 14, 1922, at 10 o'clock a.m.

Copies of the drawings and specifications will be on file at the office of the Clerk of the Board of Supervisors of Ontario County at his office in the Court House in the City of Canandaigua, N. Y., for the purpose of estimating.

The architect, J. Foster Warner, will provide a limited number of copies of the plans and specifications, which will be loaned to the prospective bidders on deposit of a certified check to the order of the Board of Supervisors of Ontario County in the sum of $25. If plans and specifications are returned on or before the submission of estimates, the check will be returned to the maker, but should the plans and specifications be not returned, the deposit may become forfeited.

Copies of such plans may be obtained from Earle S. Warner, Supervisors' Clerk, at the Court House, Canandaigua, N. Y., with whom the check aforesaid shall be deposited.

The Court House Committee reserves the right to reject any one or all bids filed on the above work.

Dated at Canandaigua, N. Y., October 17, 1922.

FRED A. RUSSELL,
EDWARD L. MOODY,
Court House Committee.

Bids: Nov. 20.

Bridge No. 7 Allegheny River

Pittsburgh, Pa.

Sealed proposals will be received at the office of the County Controller of the County of Allegheny, Pennsylvania, in the Court House, at the corner of Fifth Avenue and Grant Street, Pittsburgh, Pa., until eleven o'clock A.M., Eastern Standard Time, November 20, 1922, and publicly opened after twelve M. of the same date, for the construction, for said County of Allegheny, of a Bridge over the Allegheny River, and its approaches, known as Bridge Number Seven, Allegheny River, and extending from Fortieth Street, near Foster Street, Pittsburgh, Pa., to and across the Allegheny River and to two points in Ohio Street, Borough of Millvale, one at Grant Avenue and the other near Feilbaugh Street.

The entire work will be divided into sections, as follows:

Section 1.—Substructure.
Section 2.—Superstructure.
Section 3.—Paving on Bridge.
Section 4.—Relocation of Ohio Street in Millvale.
Section 5.—Ornamental Work.
Section 6.—Electric Work.

OFFICIAL PROPOSALS

A pamphlet, giving full information as to the work, the conditions regulating bidding, and the various requirements in relation thereto, has been prepared, and copies may be obtained by prospective bidders, on application, at the office of the County Engineer, Room 301 Court House, at Fifth Avenue and Grant Street, Pittsburgh, Pa., or at the office of Benno Janssen, Architect, 802 Century Building, Pittsburgh, Pa.

This pamphlet contains the following:

1. Copy of Public Advertisement.
2. Information for Bidders.
3. Proposal Blank for the use of Bidders.
4. Bidder's Bond for the use of Bidders.
5. Contract Form to be executed by the Contractor.
6. Contractor's Bond to be executed by the Contractor.
7. Specifications.

Plans of the said bridge are on file in the office of the County Engineer and in the office of the Architect, where they may be examined, on request, at all reasonable hours. Copies of said plans may be obtained from the County Engineer by making a deposit of $25.00, which deposit will be refunded upon the return of said plans without marking, disfigurement or other damage, within ten days after the awarding of the contract.

In submitting bids, bidders shall use the special bidding blanks found in said pamphlet, which shall be enclosed in a sealed envelope, addressed to the "County Commissioners of the County of Allegheny, Pennsylvania," and indorsed with the name of the Bidder and marked "Proposal for Bridge Number Seven, Allegheny River," and deposited with the County Controller on or before the time named above.

Each proposal must be accompanied by a bond of a surety company, approved by the Common Pleas Court of Allegheny County, Pennsylvania, or by a certified check on some solvent bank, payable, without restrictions, to the Treasurer of the County of Allegheny, as a guarantee that the bidder, if awarded the contract, will accept the same and faithfully comply with every requirement and condition set forth in the advertisement, and notice to Contractors, as more fully set forth in the Information for Bidders. The amount of the bond or check required for each of the various sections of the work is as follows:

Section 1. Fifty Thousand Dollars ($50,000.00).

Section 2. Seventy-five Thousand Dollars ($75,000.00).

Section 3. Five Thousand Dollars ($5,000.00).

Section 4. Ten Thousand Dollars ($10,000.00).

Section 5. Three Thousand Dollars ($3,000.00).

Section 6. Two Thousand Dollars ($2,000.00).

The County Commissioners reserve the right to reject any or all bids and to award the contract for any section of the work separately. The contracts for said work will be awarded or bids rejected as soon after opening the bids as possible.

JOHN P. MOORE,
County Controller.

Bids: Nov. 14.

Paving, etc.

Sumner, Ia.

Sumner, Iowa, will receive bids up to November 14th, 1922, for Pavement, Curb and Gutter. Concrete, Vibrolithic, Bitulithic Asphaltic Concrete, Sheet Asphalt or 3" Brick. Estimated, 34,000 feet Curb and Gutter and 58,000 sq.yds. Pavement. Certified check 10% of bid.

Plans and specifications on file with Town Clerk at Sumner, Iowa, and with Currie Engineering Company at Webster City, Iowa.

Bids: Nov. 13.

Sewer Construction

CONTRACT 33-S

Washington, D. C.

Sealed proposals for building 14,200' of 6" to 15" sewer in Mt. Rainier and vicinity will be received at the office of the Washington Suburban Sanitary Commission, Evans Bldg., New York Ave., Washington, D. C., until 3 p.m., Monday, November 13.

Plans obtainable from Robert B. Morse, Chief Engineer of District, Hyattsville, Md., on returnable deposit of $5.00 for plans.

T. HOWARD DUCKETT,
EMORY H. BOGLEY,
J. BOND SMITH,
Commissioners.

OFFICIAL PROPOSALS

Bids: Nov. 15.

Concrete and Steel Bridges

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Construction of concrete and steel bridge of two 45'0" spans and 30'0" roadway at M.P. 23.8 over North Branch of Raritan River, Route No. 16, in the Municipalities of Bridgewater and Bedminister, County of Somerset.

Bids for the above will be received at the office of the State Highway Commission, Broad St. Bank Bldg., Trenton, N. J., on November 15, 1922, at 11:00 A.M., and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond form for the proposed work are on file in the office of Mr. John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J., and may be inspected by prospective bidders. Plans will be furnished on deposit of ten ($10.00) Dollars, for doing this work upon application to Mr. John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids must be made on the standard proposal form in the manner designated therein and as required by the specifications for this work; same to be enclosed in sealed special addressed envelopes, bearing the name and address of bidder and the work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the State Treasurer for not less than ten (10%) per cent of the amount of the bid, provided the said certified check shall not be less than $500.00 nor more than $20,000 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelope will be furnished on application to Mr. John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a Surety Company duly authorized to do business in this State, stating that such Surety Company will provide said bidder with a bond in such sum as is required in and in accordance with the specifications, conditioned for the faithful performance of the provisions of the contract and specifications.

By order of the State Highway Commission.

A. LEE GROVER, Chief Clerk.

Bids: Nov. 21.

Road Grading

Newton, N. J.

Notice is hereby given that sealed bids will be received by The County of Sussex for grading of Fredon Stillwater Road in the Township of Fredon and the County of Sussex. Estimated amount of excavation required is 34,865 cu.yd. and opened and read in public at the Freeholders Office, Newton, N. J., on November 21, 1922, at 11:30 a.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Harvey Snook, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Newton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and addres of bidder and name of road on the outside, addressed to The County of Sussex, Newton, N. J., and must be accompanied by a Surety Company Certificate and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

By order of The County of Sussex.

(Signed) WILLIAM S. VOUGHT, Clerk.

OFFICIAL PROPOSALS

Bids: Nov. 15.

Installing Water Pipe

Albany, N. Y.

Sealed proposals for the installation of a water pipe for Sing Sing Prison, Ossining, N. Y., will be received by the undersigned at his office in the Capitol, Albany, N. Y., until twelve o'clock noon on Wednesday, November 15, 1922, when they will be publicly opened and read. Proposals shall be on the form furnished by the Superintendent of Prisons and shall be accompanied by a draft or certified check payable at sight to the Superintendent of Prisons for ten per centum (10 per cent) of the amount of the proposal. The Engineer's preliminary estimated cost of the work is $17,505.

Each proposal must be addressed to the Superintendent of Prisons, Capitol, Albany, N. Y., and on the outside of the envelope must be clearly and conspicuously written: "Sealed Proposal for Water Pipe Installation at Sing Sing."

The bidder whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds the certified check will be returned to the proposer unless the same has been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Prisons. The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Prisons which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work according to the contract price, and an additional bond, known as the Labor Bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price will be required as surety that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

Plans, sheets one and two, may be seen and detail specifications, engineer's estimate of quantities, proposal blanks, form of contract and form of bond required and other information for proposers may be had at the office of the Superintendent of Prisons, Capitol, Albany, N. Y.; at the offices of the State Engineer and Surveyor, Telephone Building, Albany, N. Y.; Barge Canal Terminal Building, Pier 6, East River, New York City; Barge Canal Terminal Building, Foot of Genesee Street, Buffalo, N. Y.; Weighlock Building, Syracuse, N. Y., and the Barge Canal Terminal Building, Canal Harbor, Rochester, N. Y.

Copies of detail plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of thirty cents (30c), to cover the cost of producing the blue prints.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Prisons of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract if in the judgment of the undersigned the interests of the State will be enhanced thereby.

CHAS. F. RATTIGAN,
Superintendent of Prisons.

Dated: October 26, 1922.

10 Years' Experience as Contract Bond and Compensation Insurance Specialist.
This time spent in personal contact with Underwriters. That is Swart Service—Worth infinitely more but costs no more than the ordinary sort.
SWART
92 William St., New York

OFFICIAL PROPOSALS

Bids: Nov. 29.

Delaware River Bridge Main Towers Contract No. 6

Philadelphia, Pa.

Sealed proposals for the construction of the two Main Towers of the bridge over the Delaware River connecting the City of Philadelphia, Pa., and the City of Camden, N. J., will be received by the Delaware River Bridge Joint Commission at Room 806, Widener Building, Philadelphia, Pa., until 3:00 o'clock P.M. Eastern Standard Time, November 29, 1922, when they will be publicly opened and read. The contract will be awarded, or all bids rejected, within fourteen days after the bids are opened. The right is reserved to reject any or all bids.

The two piers on which the towers are to be erected are located in the Delaware River near the pier head lines on the Pennsylvania and New Jersey sides of the river at points approximately opposite to Race Street in Philadelphia and Pearl Street in Camden. The work will include the furnishing, fabricating, painting and erecting of the two steel towers complete, with top saddle castings, as shown in the contract drawings, ready to receive the cables. The work comprises approximately 9,500 tons of steelwork, and must be completed within a period of fifteen months.

Bids must be made upon the blank proposal form, which, together with specifications, bond and contract form, and contract drawings, may be obtained after November 8, 1922, at the office of the Joint Commission upon deposit of $25, which deposit will be refunded upon the receipt of bid or upon their return in good condition.

Each proposal must be accompanied by a certified check for seventy-five thousand dollars, drawn upon a national or state bank or trust company having an office either in Philadelphia or Camden, and payable to the Delaware River Bridge Joint Commission, and sureties' consent must be shown. The bidder or bidders to whom the concract is awarded will be required to give bond in the sum of fifty per cent of the amount of the concract.

WILLIAM C. SPROUL, Chairman.
JOSEPH K. COSTELLO, Secretary.
DELAWARE RIVER BRIDGE JOINT COMMISSION

Bids: Nov. 14.

Assembly Hall and Industrial Building

Letchworth Village, Thiells, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work—Attendants' Home—Assembly Hall and Industrial Building (Girls' Group) at Letchworth Village, Thiells, N. Y., will be received by Mr. Mortimer B. Patterson, President of the Board of Managers of Letchworth Village, at No. 7 Wall Street, New York City, until 12 o'clock Noon on Tuesday, November 14, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 3928, 3929, 3930, 3931, 3932, 3933, 3934 and 3935. The right is reserved to reject any or all bids. Drawings and specifications may be examined at No. 7 Wall St., New York City; at Letchworth Village, Thiells, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: October 19, 1922.

CONTRACT BONDS FOR RESPONSIBLE CONTRACTORS
The Ætna's extensive and efficient agency organization guarantees prompt service in any part of the country.
ÆTNA CASUALTY AND SURETY COMPANY
HARTFORD, CONN. AGENTS EVERYWHERE